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81/12/07

VOLUME A42 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEAT	URE B/M OR B/MS	
AAOOO		BINDER TAB VOL A42	0008496496	344270	.W.	0001862344	
CM000		CENTRAL CONTROL	0001986968	344828	. W.	0001862344	
CM001		CENTRAL CONTROL	0001769235	344828	.ы.	0001862344	
CM005		CENTRAL CONTROL	0001769236	344270	. ы.	0001862344	
CM011		CENTRAL CONTROL	0001769237	344828	.W.	0001862344	
CW012		CENTRAL CONTROL	0001769238	344828	.W.	0001862344	
CM013		CENTRAL CONTROL	0004499507	344828	. W.	0001862344	
CW014		CENTRAL CONTROL	0004499508	344828	.и.	0001862344	
CW050		CENTRAL CONTROL	0004499513	344828	.W.	0001862344	
CM101		CENTRAL CONTROL	0001785320	309538	.W.	0001862344	
CH102		CENTRAL CONTROL	0001785321	309538	.W.	0001862344	
CN103		CENTRAL CONTROL	0001785322	309538	. W.	0001862344	
CH104		CENTRAL CONTROL	0001785323	309538	. M.	0001862344	
CW105		CENTRAL CONTROL	0001785324	309538	.W.	0001862344	
CM106		CENTRAL CONTROL	0001785325	309538	.W.	0001862344	
CW107		CENTRAL CONTROL	0001785326	309538	.W.	0001862344	
CW108		CENTRAL CONTROL	0001785327	309538	.W.	0001862344	
CW109		CENTRAL CONTROL	0001785328	309538	.W.	0001862344	
CH110		CENTRAL CONTROL	0001785329	309538	.W.	0001862344	
CM111		CENTRAL CONTROL	0001785330	309538	.Ŵ.	0001862344	
CW112		CENTRAL CONTROL	0001785331	309538	.W.	0001862344	
CM113		CENTRAL CONTROL	0001785332	309538	.W.	0001862344	
CW114		CENTRAL CONTROL	0001785333	309538	.W.	0001862344	
CW115		CENTRAL CONTROL	0001785334	309538	. ы.	0001862344	
CW116		CENTRAL CONTROL	0001785335	309538	. И.	0001862344	
CW117		CENTRAL CONTROL	0001785336	309538	.W.	0001862344	
CW118		CENTRAL CONTROL	0001785337	309538	. W.	0001862344	
CW119		CENTRAL CONTROL	0001785338	309538	.Ñ.	0001862344	
CW120		CENTRAL CONTROL	0001785339	309538	.W.	0001862344	
CM151		CENTRAL CONTROL	0001785340	309538	.н.	0001862344	
CW122		CENTRAL CONTROL	0001785341	309538	. W.	0001862344	
CW123		CENTRAL CONTROL	0001785342	309538	.W.	0001862344	
CW124		CENTRAL CONTROL	0001785343	309538	.W.	0001862344	
CM301		CENTRAL CONTROL	0001986969	344270	.W.	0001862344	
CM302		CENTRAL CONTROL	0001785365	309538	. W.	0001862344	
CM303		CENTRAL CONTROL	0001785366	309538	.W.	0001862344	
CN304		CENTRAL CONTROL	0001785367	309538	.W.	0001862344	
CW305		CENTRAL CONTROL	0001785368	309538	.W.	0001862344	
CW306		CENTRAL CONTROL	0001785369	309538	.W.	0001862344	
CW307		CENTRAL CONTROL	0001785370	309538	.W.	0001862344	
CM308		CENTRAL CONTROL	0001785371	309538	.W.	0001862344	
CW309		CENTRAL CONTROL	0001785372	309538	.W.	0001862344	
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VOLUME A42 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE

81/12/07 PAGE

BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE		PART NUM	EC NUM	FEATL	JRE B/M OR B/MS
CW500		CENTRAL C	ONTROL	0004499510	344828	. ы.	0001862344
CW501		CENTRAL C	ONTROL	0001749501	316673	.W.	0001862344
CW502		CENTRAL C	ONTROL	0001749502	316673	.W.	0001862344
CW503		CENTRAL C	ONTROL	0001749503	316673	.W.	0001862344
CH504		CENTRAL C	ONTROL	0001749504	316673	.W.	0001862344
CH505		CENTRAL C	ONTROL	0001749505	316673	. И.	0001862344
CN506		CENTRAL C	ONTROL	0001749506	316673	.W.	0001862344
CW507		CENTRAL C	ONTROL	0001749507	316673	.W.	0001862344
CW508		CENTRAL C	ONTROL	0001749508	316673	.W.	0001862344
CW509		CENTRAL C	ONTROL	0001749509	316673	. И.	0001862344
CW510		CENTRAL C	ONTROL	0001749510	316673	.W.	0001862344
CW511		CENTRAL C	ONTROL	0001749511	316673	.W.	0001862344
CW512		CENTRAL C	ONTROL	0001749512	316673	.W.	0001862344
CW513		CENTRAL C	ONTROL	0001749513	316673	.W.	0001862344
CW514		CENTRAL C	ONTROL	0001749514	316673	.W.	0001862344
CW515		CENTRAL C	ONTROL	0001749515	316673	. W.	0001862344
CW516		CENTRAL C	ONTROL	0001749516	316673	.W.	0001862344
CW517		CENTRAL C	ONTROL	0001749517	316673	.W.	0001862344
CW518		CENTRAL C	ONTROL	0001749518	316673	.W.	0001862344
CW519		CENTRAL C	ONTROL	0001749519	316673	. W.	0001862344
CW520		CENTRAL C	ONTROL	0001749520	316673	.W.	0001862344
CW521		CENTRAL C	ONTROL	0001749521	316673	.W.	0001862344
CW522		CENTRAL C	ONTROL	0001749522	316673	.W.	0001862344
CN523		CENTRAL C	ONTROL	0001749523	316673	.W.	0001862344
CW524		CENTRAL C	ONTROL	0001749524	316673	. W.	0001862344
CW525		CENTRAL C	ONTROL	0001749525	316673	.W.	0001862344
CW526		CENTRAL C	ONTROL	0001749526	316673	. W.	0001862344
CN527		CENTRAL C		0001749527	316673	.W.	0001862344
CW528		CENTRAL C		0001749528	316673	.W.	0001862344
CW529		CENTRAL C	ONTROL	0001749529	316673	.W.	0001862344
CN530		CENTRAL C	CONTROL	0001749530	316673	.W.	0001862344
CM531		CENTRAL C	ONTROL	0001749531	316673	. М.	0001862344
CN532		CENTRAL C	ONTROL	0001749532	316673	.н.	0001862344
CX001		CENTRAL C	ONTROL	0001769239	344270	.W.	0001862344
CX002		CENTRAL C	ONTROL	0001769240	344270	.W.	0001862344
CX003		CENTRAL C	ONTROL	0001769241	344828	.W.	0001862344
CX004		CENTRAL C	ONTROL	0001769242	344828	.W.	0001862344
CX005		CENTRAL C	ONTROL	0001769243	344270	.W.	0001862344
CX006		CENTRAL C	ONTROL	0001769244	344270	.W.	0001862344
CX007		CENTRAL C		0001769245	344828	.W.	0001862344
CX008		CENTRAL C		0001769246	344270	. W.	0001862344
CX009		CENTRAL C	CONTROL	0001769247	344828	.н.	0001862344

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VOLUME A42 MACHINE 3705- -0080232 MODEL M81 SYSTEM 0002904 MODE BOX SHIP 81/12/11

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM SH TITLE PART NUM EC NUM FEATURE B/M OR B/MS CENTRAL CONTROL .W. 0001862344 CX010 0001769248 344270 CX011 CENTRAL CONTROL 0001769249 344270 .W. 0001862344 CENTRAL CONTROL 0001852856 0001862344 CZ001 344270 CENTRAL CONTROL 0001852857 344270 0001862344 CZ002 .W. CENTRAL CONTROL 0001852858 344270 .W. 0001862344 CZ003 CENTRAL CONTROL
CENTRAL CONTROL 0001852859 344270 .W. 0001862344 CZ004 CZ005 0001852860 344270 .W. 0001862344

TOTAL PART NUMBERS THIS VOLUME

91

86968 **B** 

**O** 

1986968 CW000

# 3705-80 CHANNEL ADAPTER ROS BOOTSTRAP LOADER REFERENCE MATERIAL

- I TYPE I ROS LOADER
- I CARD P/N 8211470 MUST BE PRESENT IN 01A-B4F2
- 2 ROS FLOW CHARTS-CWI50
- 3 PROGRAM LISTINGS CWIOI THRU CWI24
- 4 ROS INSTRUCTION TEST SIMULATION RUN LIST-ING CW301 THRU CW309
- 5 SEE NOTES [12345] 5

- II NROS LOADER
- I CARD P/N 8252028 MUST BE PRESENT IN OIA-B4F2
- 2 ROS FLOW CHARTS CW500
- 3 PROGRAM LISTINGS CW501 THRU CW532
- 4 ROS INSTRUCTION TEST SIMULATION RUN LISTING CW301 THRU CW309
- 5 SEE NOTES 1 2 3 4 5 6

#### NOTES

- I WITH A CA-I, TYPE I ROS IS INSTALLED IN OIA-B4F2
- 2 WITH A SINGLE CA-4, TYPE I ROS OR NROS IS INSTALLED IN OIA-B4F2
- 3 WITH TWO CA-4'S, NROS IS INSTALLED IN OIA B4F2
- WITH A STANDALONE REMOTE (NO CA'S INSTALLED), NO ROS CARD IS INSTALLED IN OIA-B4F2
- 5 CA-I OIA-A4 FACTORY FEATURE B/M 1856419 CA-4 OIA-A4 FACTORY FEATURE B/M 5153914 CA-4 OIA-BI FACTORY FEATURE B/M 5153915 (2ND CA-4)
- 6 THE 3705-80 NROS IS THE SAME NROS USED ON THE 3705-II.
  THE NROS CAN CONTROL UP TO FOUR CA-4'S BUT ONLY TWO CA-4'S
  MAY BE INSTALLED IN A 3705-80

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FOR IBM.	ALL QUE	STIONS MU	ST BE RE	FERRED TO	THE IBM	PURCHASING DEP	ARTMENT."				
		IBM	•		1.	DATE	CHANGE NO		DATE	CHANGE NO	19
NAME	370	5-80 F	ROS F	REF		OCT80	344270				8
			•		RED	JUN81	344828			·	0
DESIGN	DJR	ОСТВО	SHT	OF							96
DETAIL	RTS	ОСТВО									œ
CHECK			CLASS	IFICATION	MUST C	ONFORM TO ENG S	PEC DEVELOPM	ENT NO	LOGIC	PG NO	
APPRO			DJR	JUN8I					CW	000	W

000 CH001 - GATE CCU INDATA TO Y BUS-CS004DB2- 2-2 804 SERV# -BLANK COLUMN--BLANK COLUMN-458 FOLLOWS CUO10BE4-12 D13 A-B4F4 455 FOLLOWS CUO12DC4-SERV\* - BOOTSTRAP ROS 2 GATED 448 FOLLOWS CUO12DD4-SERV\* 32 B13 D10 420 أم-84F4 441 FOLLOWS CU012DE4--DJ011EC2- 22-+ SAR BIT 0.5-SERV# SERV# 434 FOLLOWS CUO12DG4-- CU012-GE6 10-84F4 D12 427 SERV\* + SAR BIT 0.6 --- DJ011EH2- 32-427 FOLLOWS CU012DJ4---- CU012-GG6 In-B4F4 D04 434 SERV\* 420 FOLLOWS CUO12DK4----- CUO12-GH6 LA-B4F4 DO3 441--DJ011EK2- 42-+ SAR BIT 0.7-SERV# 413 FOLLOWS CU012DL4-CU013-GJ6 LA-B4F4 DO2 448 406 FOLLOWS CUO12DN4----- CU013-GK6 SERV\* LA-84F4 DOS 455-SERV# B11 458-SERV WIRING IBM CORP.SCD CHOO1 CW001

coccececececececececececececec

-DK971EG2- 2-+ SAR BIT 1.1 ----DK971EL2- 12-1 + SAR BIT 1.2 ----DL001EC2- 22-+ SAR BIT 1.3--DL001EH2- 32-+ SAR BIT 1.4--DL001EK2- 42-+ SER BIT 1.5 -DM001EC2- 52-SAR BIT 1.6 -DM001EH2- 62-

2 BO3

SERV\*

12 BO2

0-84F4

22 BO7

0-84F4

42 DO7

0-84F4

52 BO5

0-84F4

52 BO5

0-84F4

52 BO5

0-84F4

52 BO5

0-84F4

LOC. TYPE

000 CM003

C#005

000

- GATE CCU INDATA TO Y BUS-----CSO04DB2- 2-1-- BOOTSTRAP ROS 1 GATED----CU016GG6--- ARRAY DATA DUT 1.0--CW012GD2- 16-- ARRAY DATA OUT 1.1--CW012GE2- 23-- ARRAY DATA OUT 1.2-CW012GF2- 30-- ARRAY DATA OUT 1.3--CW0126G2- 37 - ARRAY DATA CUT 1.4--CW012GK2- 44-- ARRAY DATA DUT 1.6-CH012GM2- 58-- ARRAY DATA OUT 1.7-CW012GN2- 65-+ SAR BIT 0.5---DJ011EC2- 72-1-+ SAR BIT 0.6-DJ011EH2- 79

NOTE F051BJ-N 511E 103-NOTE PROSTHEN
2 ZBO46 A 6
9 ZD136 | NOTE SERV 72 G11

NOTE FROSTERN 9 ZD13A A OR 1811 203-103 -12JA UH LA-B4F2J 11\* ROS 1 TO INDA TA DOT BIT 1.7 ROS1GK1 65 09NA A OR |B12 211-110 10NA U+ TA-B4F2 ROS 1 TO INDA TA DOT BIT 1.6 FRUSTGU 58 12RS A DR | D11 218 110 11R UH ROS 1 TO INDA TA DOT BIT 1.5 #RUSTGH<sub>1</sub> 103 51 09RS A DR | D10 225-110 09GS UH 10-84F2J ROS 1 TO INDA TA DOT BIT 1.3 FROSTGE 37 O1NA A DR 1004 239-110 O2NA UT ROS 1 TO INDA TA DOT BIT 1.2 #R051GD 30 04R& A OR | DO3 246-110 03R& UH ROS 1 TO INDA NOTE F0516B1 16 04NA A OR | DO5 259-110 04PA U+ LQ\_B4F2J

000 CW011 203 + ROS 1 BOOTSTRAP LOADED- CUO10-BM2 259 + ROS 1 TO INDATA DOT BIT 1.0-GB2 CU012 253 + ROS 1 TO INDATA DOT BIT 1.1-GC2 246 + ROS 1 TO INDATA DOT BIT 1.2-GD2 239 + ROS 1 TO INDATA DOT BIT 1.3-GE2 232 + ROS 1 TO INDATA DOT BIT 1.4-GG2 225 + ROS 1 TO INDATA DOT BIT 1.5—GH2 218 + ROS 1 TO INDATA DOT BIT 1.6---GJ2 211 + ROS 1 TO INDATA DOT BIT 1.7-GK2

NOTE. USE LOGIC SHEETS CW011
AND CW012 IF ROS 1 IS INSTALLD
IN 01A-B4F2-CARD PN 8211470.
USE LOGIC SHEETS CW013 AND
CW014 IF N ROS IS INSTALLED IN
01A-B4F2-CARD PN 8252028.
USE LOGIC SHEETS CW001 AND
CW011 CW002 IF IPL IS VIA THE REMOTE
PROG LOADER FEATURE.

000

LOC. TYPE A-B4F2 7593

TYPE 1 ROS -E.C.-HISTORY-E, MACH. 3705 FRAME 01 IBM CORP.SCD CW011 DATE LAST EC 06-02-81 344828 P.N. 1769237

000 CM015 82 B09 1 000 72 D09 2 255 52 D07 8 42 D06 16 32 B07 32 22 B02 64 12 B03 128 0-B4F2 \_\_\_\_DJ011EK2- 2-11-ROS1 AC MREG OOO A ARRAY DATA DUT 1.7 1111 + SAR BIT 0.7-466 - ARRAY DATA OUT 1.0- CW011-GD2 ROSICD N 512E 302 12D 115 070 61 LA-BAF2 460 - ARRAY DATA DUT 1.1- CW011-GE2 NOTE -CD-1 02F 211 + SAR BIT 1.0--DK971EG2- 12-NOTE ROSIAR 2 ZB105 N -CD-1 03C 214 453 - ARRAY DATA DUT 1.2- CW011-GF2 03K 115in-Barzi -CD-1 03F 217-ΠĪĪ 446 - ARRAY DATA DUT 1.3- CHO11-GG2 --CD-1 04C 220 TIII ARRAY
DATA DUT 1.6
ROS1CC.
10C N 411C + SAR BIT 1.1--DK971EL2- 22 -CD-1 06R 251 323 100 438 - ARRAY DATA DUT 1.4---- CW011-GK2 -CD-1 08N 226 1111 -CD-1 07R DATA DUT 1.5 330 090 N 509D 432--DL001EC2- 32-+ SAR BIT 1.2--CD-1 07N 232-432 - ARRAY DATA OUT 1.5--- CHO11-GL2 ROSIAD MREG 000 4 — 255 2 B10 G1 NOTE 338 10F N 609E 425 - ARRAY DATA DUT 1.6- CW011-GM2 LA-BAF2J + SAR BIT 1.3--DL001EH2- 42 ORRAY DATA OUT 1.3 404 - ARRAY DATA OUT 1.7- CW011-GN2 -CD-1 06L 245 ROSTBH-N 504K TIIT TOOT 344 04J -CD-1 07H 24 IIII DRRAV -CD-1 07L 251 ---C OR DATE DUT 1.2 -DL001EK2- 52-+ SAR BIT 1.4-263 -351 02H N 503H 453-DOT -CD-1 08H 254 PARKAY -CD-1 220 --- OR 358 01H N 501J 080 260-TOOT --CD-1 IIII + SAR BIT 1.5--DM001EC2- 62-La\_B4F2J -CD-1 07F 263 NOTE DR. 366 02L DOT LA-BAF2J + SAR BIT 1.6--DM001EH2- 7 + SAR BIT 1.7--DM001EK2- 82 LOC. TYPE A-84F2 7593 NOTE. SEE NOTE ON CHOIL TYPE 1 ROS -E.C.-HISTORY---E, MACH.3705 FRAME

IBM CORP.SCD

P.N. 1769238

DATE LAST EC 06-02-81 344828 CE012

CM012

000

|||‡ NOTE NOTE - GATE CCU INDATA TO Y BUS----CS004DB2- 2-6 D130 OR # B11 203-NROS | + XLHCC CE4906 \*\*\*\*\* \*\*\*\* NROS 74 G11 - BOCTSTRAP ROS 1 GATED--CU016666-CE4809 103 -00-B4F2 NOTE 111 — A INROS ALMAYS MINUS 4V--CW013001-- 10-|||; 78 B13 XLLDD CE480A A-84F2 118 -XLLCC ALWAYS MINUS 4V-130 --- A-B4F2 -CW01 3002-AR ALWAYS MINUS 4V--CW013003-- 18-NROS 82 B10 XLLDD CE480B ALWAYS MINUS 4V--CW013004- 22 NOTE ALWAYS MINUS 4V--CW013005- 26 NROS XLLDD CE482A ALWAYS MINUS 4V--CW01 3006-- 30 230-111 INROS -XLLCC ICE480E ALWAYS MINUS 4V--CU013007-- 34 AA-BAF2 237 ALWAYS MINUS 4V--CW01 3008- 38 NROS -AXLLCC ICE480D 118 + ARRAY DATA OUT 1.0--CW014FD4- 42 NOTE ---A 115 DATA OUT 1.1-+ ARRAY -CW014FE4- 46 122 + ARRAY DATA DUT 1.2--CW014FF4- 50-OR OR\* OR OR\* -CW014FG4- 54 DATA OUT 1.3-38 GOB LA-B4F2 DO4 CF4805 14 GO9 A-B4F2 D12 256-OR OR\* NROS XLHCC + ARRAY DATA OUT 1.4--CW01 4FK4-NOTE OR DR# 34 G10 0-B4F2 D11 NROS XLHCC -CW014FL4- 62 DATA DUT 1.5-10 JO6 0-B4F2 D05 264 OR OR\* 62 -+ ARRAY DATA OUT 1.6--CW01 4FM4--XLHCC CE4806 26 J10 XCABB 30 J09 10-B4F2 D10 169 DATA OUT 1.7-CE481L + ARRAY -CH014FN4- 70 DR DR\* NROS XLHCC CE4808 NOTE -DJ011EC2- 7 + SAR BIT 0.5 34 G1 0 KCABB CE481K 26 J10 A-B4F2 B12 176 -DJ011EH2- 78 + SAR BIT 0.6-DR DR# NROS XLHCC CE4803 + SAR BIT 0.7--DJ011EK2- 82-NROS NROS 22 J07 A-B4F2 D03 183 46 - OR DR#

NROS 18 GO7 0-B4F2 DO2 190-

NOTE • USE LOGIC SHEETS CW013
AND Cw014 IF N ROS IS INSTALLD
IN 019-B4F2-CARD PN 8252C28 •
USE LOGIC SHEETS CW011 AND
CW012 IF ROS 1 IS INSTALLED IN
019-B4F2-CARD PN 8211470 •
USE LOGIC SHEETS CWC01 AND
CW013 CW002 IF IPL IS VIA THE REMOTE
PROG LOADER FERTURE • 000

NROS XCAAA CE48OL NROS 230 XCAAA CE480K NROS XCAAA 237 NROS XCAAA CE480H G-B4F2 NOTE NROS 14 GO9 XCABB CE481H 38 GOS XCABB CE 481 G Q-B4F2 NOTE 22 JO7 KROS XCABB CE481F Q-B4F2-R 18 GO7 XCABB CE481E NOTE R NROS 10 JO6 XCABB CE481J

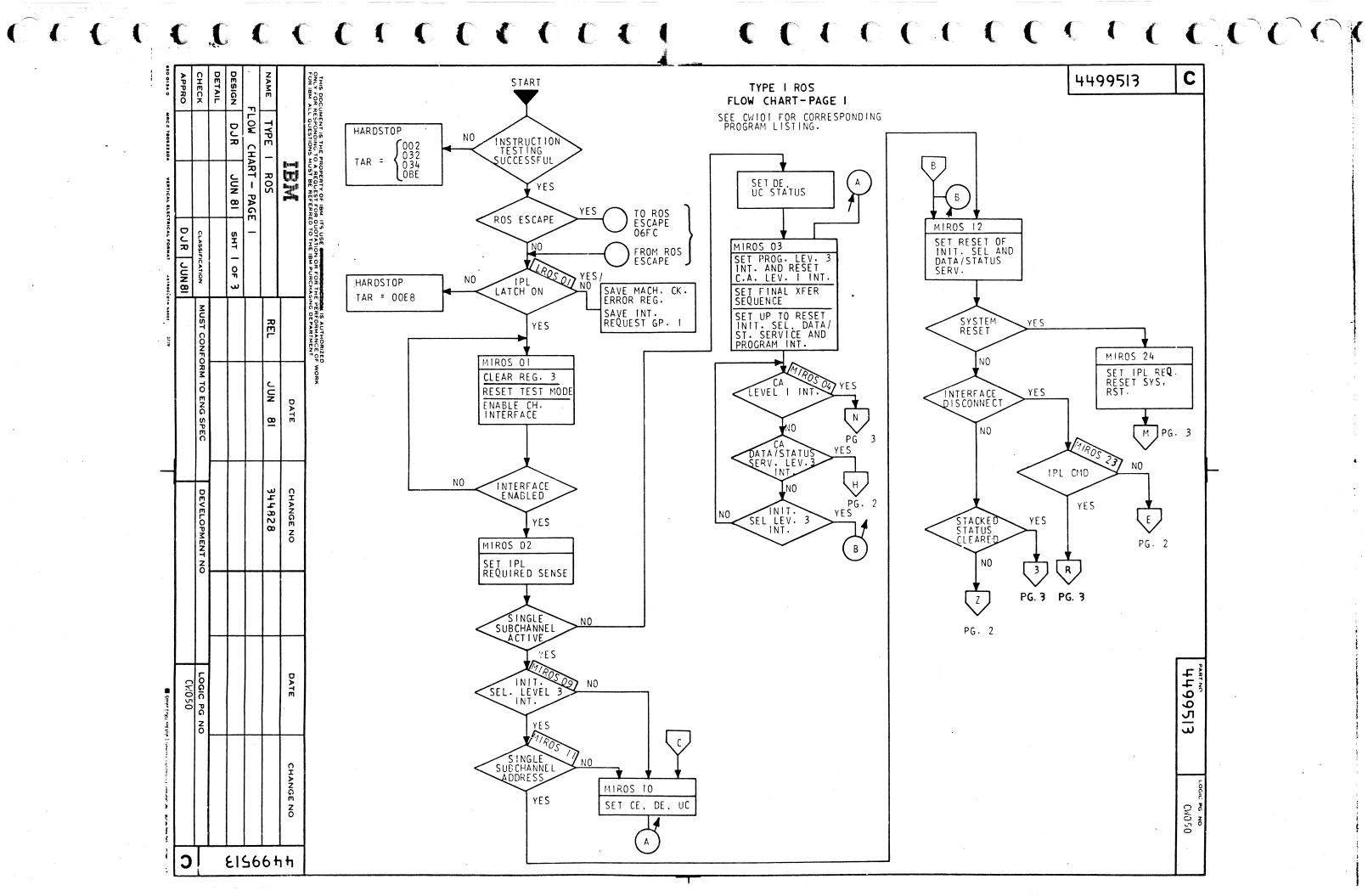
LOC. TYPE

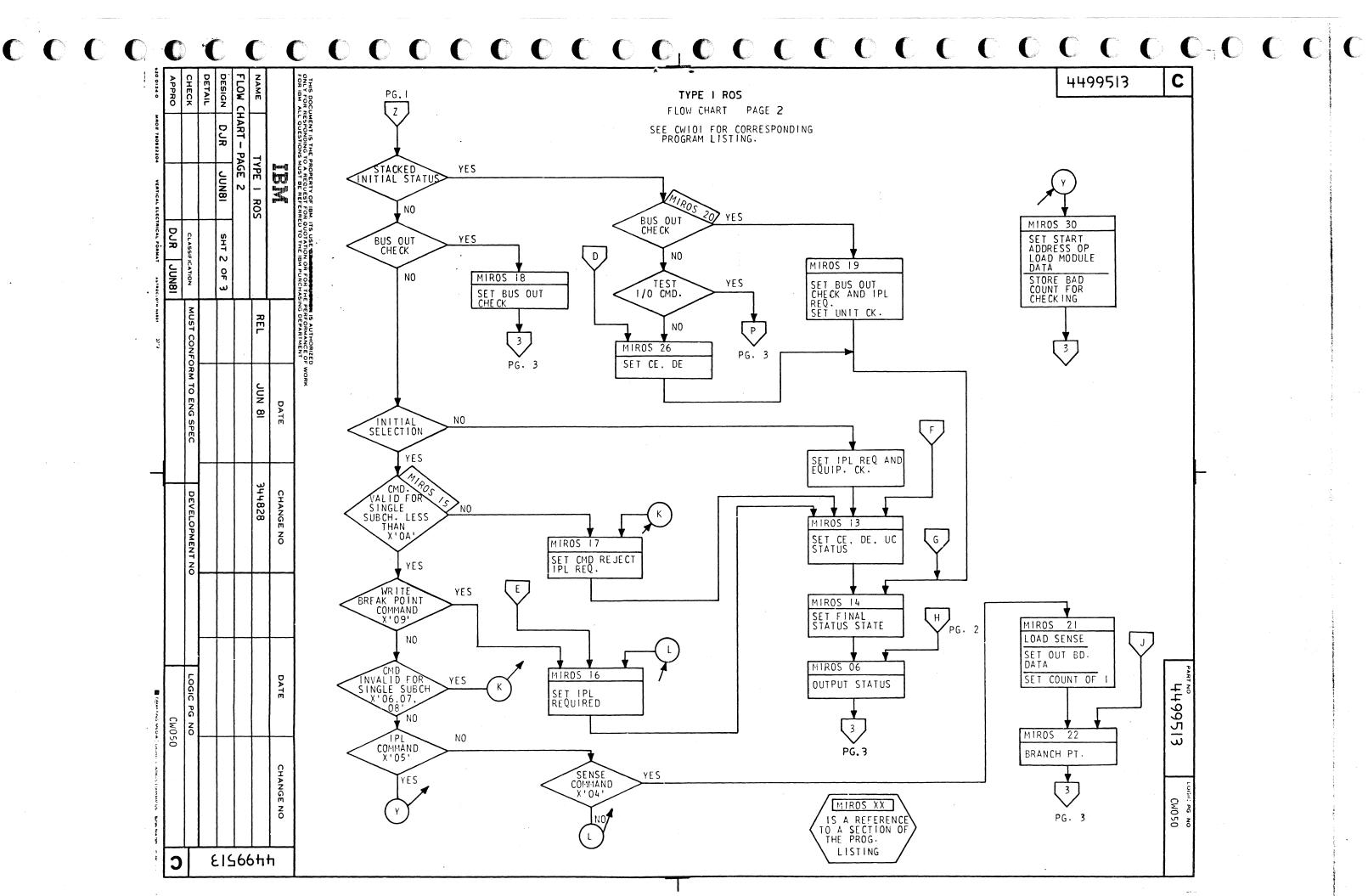
000 CM013 203 + N ROS BOOTSTRAP LOADED- CUO10-BF2 245 + SELECT 1ST 256 BYTES- CHO14-CF2 237 + SELECT 2ND 256 BYTES- CHO14-CG2 230 + SELECT 3RD 256 BYTES- CW014-CH2 210 + SELECT 4TH 256 BYTES- CW014-CJ2 264 + N ROS TO INDATA DOT B17 1.0-GB6 190 + N ROS TO INDATA DOT BIT 1-1---GC6 183 + N ROS TO INDATA DOT BIT 1.2---GD6 155 + N ROS TO INDATA DOT BIT 1.3-GE6 256 + N ROS TO INDATA DOT BIT 1.4-GG6 169 + N ROS TO INDATA DOT BIT 1.5-GH6 162 + N ROS TO INDATA DOT BIT 1.6-GU6 176 + N ROS TO INDATA DOT BIT 1.7-GK6

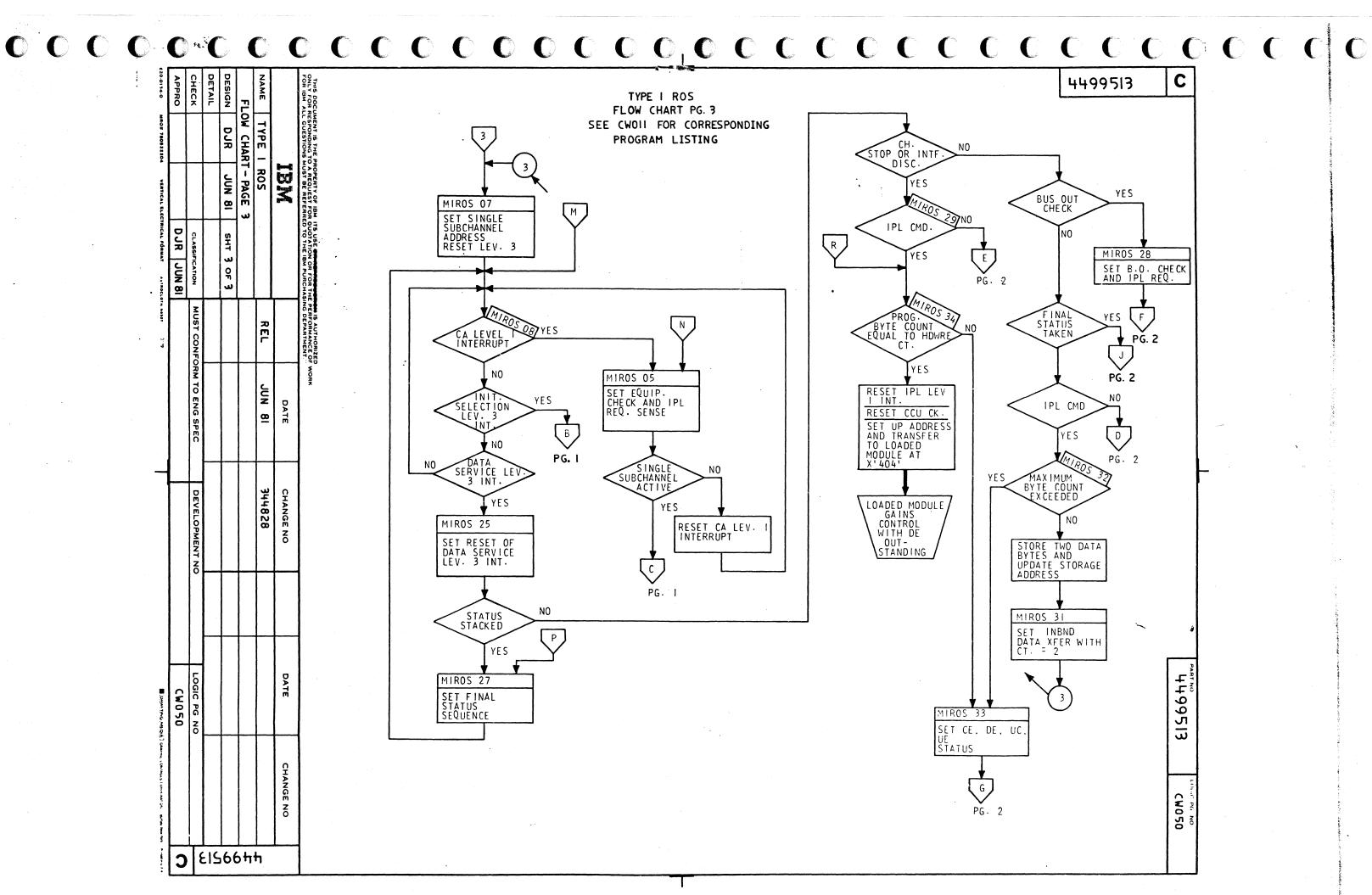
N CHANNEL ROS -E.C.-HISTORY--En MACH - 3705 FRAME IBM CORP.SCD CW013 DATE LAST EC 06-02-81 344828 P.N. 4499507 000

PRRAY DATA CUT 1.7 ARRAY DATA DUT 1.5 + SELECT 1ST 256 BYTES----CW013CF2- 2-79 B09 XLLDD CE480P 111 1 209 111 1 319 11111# 11111 \* X15 121 X16 128 X17 135 X18 142 X19 149 11111 DOT 11111 548 + ARRAY DATA DUT 1-1- CW013-FE4 72 DO9 XLL DD CE480Q 0-84F2 8 + SELECT 2ND 256 BYTES--CH013CG2- 9 NOTE NOTE 203 — 111 | 1 = 259 — 313 — 111 | 1 = 335 — 1 477 + ARRAY DATA DUT 1.2- CW013-FF4 1 + SELECT 3RD 256 BYTES--CW013CH2- 16 AR \*
NROS
STATE OF THE PROPERTY OF THE PROPERT DOT 11111# \* X55 GO1 445 + ARRAY DATA OUT 1.3- CW013-FG4 XO1 DCD BC XO2 1 \*ARRA\* -BAF2 16 --- LA-84F2 + SELECT 4TH 256 BYTES--CW013CJ2- 23 X03 2 P5AAG 114 — CE480X NROS XLLDD CE480S DATA OUT 1.4- CHO13-FK4 1111i\* 11111\* -DK971EG2- 30-+ SAR BIT 1.0-AR NROS 16 # 404 + ARRAY DATA OUT 1.5- CW013-FL4 NOTE X78 DCD EJ X79 1 +ARRO+ 107 NROS X80 2 P5AAG 114 CE481B \* 135 32 \* 1373 32 \* 142 64 \* 149 128 \* 156 98 \* 176 98 \* 276 98 CE480T + SAR BIT 1.1--DK971EL2- 37 11111 156 PR # 381 + ARRAY DATA OUT 1.6- CW013-FM4 NROS NROS X11 GO1 B4F2 11111# CE480U DATA OUT 1.3 23 -+ SAR BIT 1.2--DL001EC2- 44 # 304 + ARRAY DATA DUT 1.7- CW013-FN4 AR \*
NROS
XLL DD
CE480V OR ARRAY DATA CUT 1.1 \* 424 — \* 456 — \* 505 — \* 527 OR + SAR BIT 1.3--DL001EH2- 51-AR \*
NROS
XLLDD
CE480W DOT \* X23 DCD CC \* X24 1 \*ARRA\* \* 107 - NROS 11111\* 2 P5AAG CE4811 R # NROS XCABB CE481 C 0-B4F2 \* X25 \* 114 \* X26 | \* 121 | \* X27 | \* 128 11111\* -DL 001EK2- 58 11111\* IIIIi NROS XCABB CE4816 0-84F2 128 X28 16 135 X29 32 142 X30 64 11111 11111 NROS XCABB CE4818 0-84F2 + SAR BIT 1.5--DM001EC2- 65-NROS XCABB CE4812 149 X31 128 156 — X32 AR X33 GOT NROS XCABB CE4814 A-B4F2 + SAR BIT 1.6--DM001EH2- 72-DATA DUT 1.2 426 458 507 529 R NROS PRRAY DATA DUT\_1.6 + SAR BIT 107--DM001EK2- 7 XCABB CE4810 207 263 317 339 NROS XCABB DOT \* 454 — \* 503 — \* 525 — DOT NOTE. SEE NOTE ON CWO13 LOC. TYPE N CHANNEL ROS -E.C.-HISTORY-E, MACH. 3705 FRAME CH014 IBM CORP.SCD CW014 DATE LAST EC 06-02-81 344828 P.N. 44995CB

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

PN: 1785320

LOGIC: CWIOI

LOC	OBJ CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATE	MENT				DOS CL3-6	02/24/72
					2	******	****	************	******	****	*********	******	AROS0002
					3	*						*	AROS0003
					4	<b>*</b> .	MIN	I CHANNEL	ROS	CO	DE	*	AR350004
					5	*							AROS0005
					6	•	THIS	ROUTINE WILL HANDLE	THE IPL	FUNCT	ION FOR THE		AROS0006
					7	*	MINI	CHANNEL ADAPTER.					AROS0007
					8	*						*	80003CA
					9	*******	****	************	*******	*****	*********	********	AROS0009
000000	•				13	SROS RELOCF	EQU	x.00000.				·	AROS0012 AROS0013
00000 000100 000200 000300	70047004	7004700 7004700	4 4		14 15 16 17		DC DC DC	128x'7004' 128x'7004' 128x'7004' 128x'7004'	OUTPUT OUTPUT	STOP STOP	FILLERS FILLERS FILLERS FILLERS		AROS0015 AROS0015 AROS0016 AROS0017

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XXXX MINI CHANNEL ADAPTER ROS CODE

LOGIC: CWIO2

P.N. 1785321

SOURCE STATEMENT LOC OBJ CODE R1S1M R2S2 ADDR STMT

DOS CL3-6 02/24/72

				23 * INSTE	RUCTION	EXECUTION STARTS	Ar Address x'0010'	AROS0023
2								
98. 								
-								
2								
•				28 * TF	HIS IS	PART OF BRANCH ON	BIT TEST	AROS0028
_							·	
1	000000			30 SMINST	EQU	•		AROS0030
	000000 7004	0 70		31	OUT	0,STOP	BRANCH TO ZERO OCCURED	AROS0030
È						•		•
	000002			33 TEST01	EQU	•		AROS0033
	000002 F6FF	7(0)	•	34	TRM	R7(0),X'FF'	HAVE WE FINISHED BRANCH ON BIT TEST	AROS0034
۸۰۰ نخ	000004 98B8		000BE	35	BCL	SMIN01	YES, BRANCH OUT OF TEST	AROS0035
	000006 80CE	1(0)		37	LRI	R1(0), X'CE'	SET UP BRANCH ON BIT INSTRUCTION	AROS0037
₹.	000008 810B	1(1)		38	LRI	R1(1), X*0B*	SET UP BRANCH ON BIT INSTRUCTION	AROS0038
4.00	00000A 86FF	7(0)		39	LRI	R7(0), X'FF'	SET ALL BITS ON IN REG 7	AROS0039
	00000C 87FF	7(1)		40	LRI	R7(1),X'FF'	SET ALL BITS ON IN REG 7	AR050040
	00000E A8A2		000B2	41	В	TEST06		AROS0041

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785322 LOGIC: CW103

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

Ì					45 * ST	ART OF RO	OS CONTAINED CO	DE FOR MINI CHANNEL ADAPTER (TYPE 1)	AROS0045
nu, av						E FOLLOWI		S CORRECT PARITY AND SAVE THE GROUP	AROS0047 AROS0048
	000010				51 START	MI EQU	*		AROS0051
 	000010	0082	0	0	52	ST	RO,0(RO)	SAVE LEV 1 IAR	AROS0052
_	000012	0014	0	01	53	OUT	RO, X'01'	SET GOOD PARITY IN R1	AROS0053
	000014	0186	1	0	54	ST	R1,4(R0)	SAVE R1	AROS0054
٥									
•	000016		0	02	56	OUT	RO, X'02'	SET GOOD PARITY IN R2	AROS0056
	000018	028A	2	0	57	ST	R2,8(R0)	SAVE R2	AROS0057
Ĺ									
_	00001A		O	03	59	OUT	RO, X º 03 º	SET GOOD PARITY IN R3	AROS0059
	00001C	038E	3	0	60	ST	R3,12(R0)	SAVE R3	AROS0060
t									•
	00001E		0	04	62	OUT	RO,X'04'	SET GOOD PARITY IN R4	AROS0062
	000020	0492	4	0	63	ST	R4,16(R0)	SAVE R4	AROS0063
2				_	_				
	000022		0	05	65	OUT	RO, X'05'	SET GOOD PARITY IN R5	AROS0065
	000024	0596	5	0	66	ST	R5,20(R0)	SAVE R5	AROS0066
•	000026	0064	0	06	68	OUT	R0,X*06*	CEM COAD DIDIMY IN DE	AROS0068
			0 6	0		OUT		SET GOOD PARITY IN R6	
	000028	AKOU	O	U	69	ST	R6,24(R0)	SAVE R6	AROS0069
	00002A	0074	0	07	71	OUT	RO, X°07°	SET GOOD PARITY IN R7	AROS0071
	00002C		ž	Ŏ,	72	ST	R7,28(R0)	SAVE R7	AROS0072
•	000020	<b>U</b> / / M	•	•	~ ~	<b>U</b> 1	K / 20 (110 /	OUAT IV	1111050572

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E.C. 309538

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785323

LOGIC: CWIO4

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

						75 76 77	<b>*</b> 0	N C, LC		OR IMM		AROS0075 AROS0076 AROS0077
r. r. ·												
	00002E	A804			00034	79		<b>B</b>	TEST02		BRANCH AROUND ERROR OUTPUT	AROS0079
	000030	7004	0	70			ERROR01	OUT	0,STOP		AN INSTRUCTION OR DATA FLOW HAS	AROS0030
						81	• 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				FAILED.	AROS0381
	000032	0000				82		DC	x.0000.			AROS0082
	000034	8000	1(0)			84	TEST02	LRI	R1(0),X'00'		LOAD ZERO'S INTO REG 1 BYTE 0	AROS0084
	000036				00030	85		BCL	ERROR01		LRI, BCL OR DATA FLOW FAILURE	AROS0085
	000038		1(1)			86		LRI	R1(1), X'00'		LOAD ZERO'S INTO REG 1 BYTE 1	AROS0086
	00003A				00030	87		BCL	ERROR01		LRI, BCL OR DATA FLOW FAILURE	AROS0087
	00003C	D100	1(1)			89		ORI	R1(1),X'00'		OR ZERO'S INTO REG 1 BYTE 1	AROS0089
	00003E		1(1)			90		ARI	R1(1), X'00'		ADD ZERO'S WITH REG 1 BYTE 1	AROS0090
	000040		1(1)		* *	91		TRM	R1(1), X'FF'		ARE ANY BITS ON?	AROS0091
	000042				00030			BCL	ERROR01		ORI, ARI, TRM OR DATA FLOW FAILURE	AROS0092
	000044	D1FF	1(1)			94		ORI	R1(1), X' FF'		OR ALL BITS ON INTO REG 1 BYTE 1	AROS0094
	000046		1(1)			95		ARI	R1(1), X'FF'		ADD ALL BITS ON WITH REG 1 BYTE 1	AROS0095
	000048		1(1)			96		TRM	R1(1), X'01'		ALL BITS BUT THE LOW ORDER BIT	AROS0096
						97	*				SHOULD BE ON	AROS0097
	00004A	981D			00030	98		BCL	ERROR01		ORI, ARI, TRM OR DATA FLOW FAILURE	AROS0098
	00004C	F001	1(0)	•.		100		TRM	R1(0), X'01'		DID ADD PROPAGATE?	AROS0100
	00004E				00030	101		BZL	ERROR01		ORI, ARI, TRM OR DATA FLOW FAILURE	AROS0101
	000050	DOFF	1(0)			103		ORI	R1(0),X'FF'		OR ALL BITS ON INTO REG 1 BYTE 0	AROS0103
	000052		1(0)			104		ARI	R1(0),X'FF'		ADD ALL BITS ON WITH REG 1 BYTE 0	AROS0104
	000054				00058	105		BCL	TEST04		BRANCH DUE TO ADD CAUSING A PROPAGA-	
						106					TION.	AROS0106
	000056				•	108	TEST03	EQU	*			AROS0108
	000056	FFFF			•	109		DC	X'FFFF'		BRANCH BACK PAST ZERO. THIS IS A	AROS0109
						110	*				CONSTANT FOR TESTING.	AROS0110
	000058					112	TEST04	EQU	*			AROS0112
	000058	8000	1(0)			113		LRI	R1(0), X'00'		LOAD ZERO'S INTO REG 1 BYTE 0	AR050113
	00005A	D000	1(0)			114		ORI	R1(0), X'00'		OR ZERO'S INTO REG 1 BYTE 0	AROS 0114
	00005C	9000	1(0)			115		ARI	R1(0), X'00'		ADD ZERO'S WITH REG 1 BYTE 0	AROS0115
	00005E	FOFF	1(0)		· ·	116		TRM	R1(0), X'FF'		ARE ANY BITS ON?	AROS0116
	000060	9833			00030	117		BCL	ERROR01		ORI, ARI, TRM OR DATA FLOW FAILURE	AROS0117

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

P/N 1785324 LOGIC: CW105

DOS CL3-6 02/24/72

,						120 *	THE FOLL	OWING INSTRUCTI	ONS TEST GROUP 1 REGISTERS USED BY ROS	* AROS0120
					•	121 *			AND OUTPUT INSTRUCTIONS.	* AROS0121
ı										
1.	000062	77C8	7	7		123	XR	R7,R7	CLEAR REG 7	AROS0123
- ise	000000					125	USING	SMINST, R7		AROS0125
سر نون	000064	7157	1	7	00056	127	LH	R1, TEST03	LOAD ALL BITS ON INTO REG 1	AROS0127
						129	DROP	R7		AROS0129
D									· · · · · · · · · · · · · · · · · · ·	
	000066		5	01		131	IN	R5,X'01'	LOAD REG 1 INTO REG 5	AROS0131
_	000068		1	03		132	OUT	R1, X'03'	LOAD REG 1 INTO REG 3	AROS0132
ŧ	00006A		3	5	00000	133	XR	R3,R5	ARE REG 3 AND REG 5 EQUAL	AROS0133
	00006C	983F			00030	134	BCL	ERROR01	BRANCH TO HARDSTOP IF NOT	AROS0134
•	00006E	73C8	3	7		136	XR	R3, R7	ARE REG 3 AND REG 7 EQUAL	AROS0136
•	000070	9843			00030	137	BCL	ERROR01	BRANCH TO HARDSTOP IF NOT	AROS0137
ð	000072	<b>17</b> C8	7	1		139	XR	R7, R1	LOAD ALL BITS ON TO REG 7	AROS0139
	000074	0354	3	05		141	OUT	R3, X*05*	OUTPUT ZERO'S TO REG 5	AROS0141
t	000076	013C	1	03		143	İN	R1, X 03 °	LOAD ALL BITS OFF TO REG 1	AROS0143
	000078	15C8	5	1		145	ХR	R5,R1	ARE REG 1 AND REG 5 EQUAL	AROS0145
•	00007A	984D			00030	146	BCL	ERROR01	BRANCH TO HARDSTOP IF NOT	AROS0146

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ARCS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785325 LOGIC: CW106

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STA	TEMENT
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DOS CL3-6 02/24/72

						149 *			NS TEST THE STORE HALFWORD, LOAD HALF-	
						150 *	WORD, EX	CLUSIVE-OR, AND	STORE INSTRUCTIONS	* AROS0150
ð										
	0000 <b>7</b> C	8007	1(0)			152	LRI	R1(0), X'07'	SET UP ADDRESS FOR TESTING	AROS0152
- 24	0000 <b>7</b> E	1785	7	1		153	STH	R7,4(R1)	STORE HALFWORD WITH ALL BITS ON	AROS3153
45.	000080	1305	3	1		154	LH	R3,4(R1)	LOAD HALFWORD PREVIOUSLY SIDRED	AROS0154
	000082	73C8	3	7		155	ХR	R3, R7	ARE THEY EQUAL?	AROS3155
9	000084	9857			00030	156	BCL	ERROR01	BRANCH TO INDICATE STH, LH, OR XR	AROS0156
•						157 *			FAILURE	AROS0157
<b>)</b>	000086	1585	5	1		159	STH	R5,4(R1)	STORE HALFWORD WITH ALL BITS OFF	AROS0159
49	000088	1305	3	1		160	LH	R3,4(R1)	LOAD HALFWORD PREVIOUSLY STORED	AROS0160
	A80000	53C8	3 .	5		161	XR	R3, R5	ARE THEY EQUAL?	AROS3161
0	00008C	985F			00030	162	BCL	ERROR01	BRANCH TO INDICATE STH, LH, OR XR	AROS0162
•						163 *	•		FAILURE	AROS0163
8	00008E	1786	7	_1	· .	165	ST	R7,4(R1)	STORE ALL BITS ON FOR HALFWORD ON A	AROS0165
	•					166 *			FULLWORD BOUNDARY	AROS0166
	000090	1305	3	1		167	LH	R3,4(R1)	LOAD FIRST HALFWORD OF THE FULL WOR	
ı	,					168 *			PREVIOUSLY STORED.	AROS0168
	000092		3	5		169	, XR	R3, R5	WAS THIS HALFWORD MODIFIED?	AROS0169
	000094	9867			00030	170	BCL	ERROR01	ST FAILURE	AROS0170
-	00000	4507	-			470		DE (104)		2 2222172
	000096	1201	5	1		172	LH	R5,6(R1)	LOAD SECOND HALFWORD OF THE FULLWOR	
***	000098	7500	5	7		173 * 174	v n	ne n7	PREVIOUSLY STORED	AROS0173
سد	000098		Э	,	00030	175	XR	R5,R7	ARE REG 5 AND REG 7 EQUAL?	AROS0174
	00009A	עסטע			00030	1/5	BCL	ERROR01	STORE INSTRUCTION FAILURE	AROS0175
	00009C	1586	5	1		177	sr	R5,4(R1)	STORE ALL BITS OFF IN THE SECOND	AROS0177
•						178 *			HALFWORD	AROS0178
	00009E	0707	7	0		179	LH	R7,6(R0)	LOAD SECOND HALFWORD OF THE FULLWOR	D AROS0179
2						180 *			PREVIOUSLY STORED	AROS0180
<b>~</b>	0A000A		5	7		181	XR	R5, R7	ARE REG 5 AND REG 7 EQUAL ?	AROS0181
	0000A2	9875			00030	182	BCL	ERROR01	STORE INSTRUCTION FAILURE	AROS0182
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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785326 LOGIC: CW107

LOC	OBJ	CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATEMENT

DOS CL3-6 02/24/72

•				185 * TH	E FOLI	LOWING INSTRUCTIONS I	TEST THE BRANCH ON BIT INSTRUCTION. *	AROS0185	
£				187 *				AROS0187	
				188 *				AROS0188	
.` **				189 *				AROS0189	
				190 *	IS	on.	. •	AROS0190	
	0000A4 80CE	1(0)		192	LRI	R1(0),X'CE'	**** ADDRESS SENSITIVE ****	AROS0192	
	UUUUA4 BUCE	1(0)		193 *	LKI	KI(U), A CE	SET UP BRANCH ON BIT INSTRUCTION	AROS0192	
200	0000A6 8106	1(1)		194	LRI	R1(1),X'06'	**** ADDRESS SENSITIVE ****	AROS0193	
)	0000A8 83B4	3(1)		195	LRI	R3(1), X'B4'	**** ADDRESS SENSITIVE ****	AROS0194 AROS0195	
	0000A8 83B4	3(1)		196 +	PVT	KJ(I/ , K D4	SET UP ADDRESS FOR BRANCH ON BIT	AROS0195	
•				197 *			INSTRUCTION	AROS0198	
\$				198 *			**** ADDRESS SENSITIVE ****	AROS0197 AROS0198	
	0000AA A806		000B2	199	В	TEST06	BRANCH TO BEGIN TEST	AROS0199	
	OUODAA ABOO		OOOBZ	177	Ь	163100	branch to begin test	AKUSU177	
•	0000AC 9180	1(1)		201 TEST05	ARI	R1(1), X 80	UPDATE INSTRUCTION TO BE TESTED	AROS0201	
	0000AE 98AF	1(1)	00002	202	BCL	TEST01	BRANCH INSTRUCTION HAS GONE THROUGH	AROS0201	
•	OUUAL JOAF		00002	203 *	DCD	123101	SIXIEEN ITERATIONS	AROS0202	
•				203			SIXIEEN TIERRITONS	AROSUZUS	
	0000B0 D00E	1(0)		205	ORI	R1(0),X'0E'	CORRECT INSTRUCTION WHEN PROPAGATION	AROS0205	
•				206 *		•	OCCURS OVER THE THREE BITS	AROS0206	•
•				207 +			REPRESENTING REG 7	AROS0207	
<b>3</b>	0000B2 3181	1 3		209 TEST06	STH	R1,0(R3)	STORE BRANCH ON BIT INSTRUCTION	AROS0209	
w.	0000B4 CE06	7(0,0)	000BC	210	BB	R7(0,0),ERROR02	*** THIS INSTRUCTION CHANGES ***	AROS0210	
				211 *			BRANCH IS ERROR WHEN REG 7 IS ZERO	AROS0211	
	0000B6 F6FF	7(0)		212	TRM	R7(0), X'FF'	IF BRANCH DID NOT OCCUR SHOULD IT	AROS0212	
1.0		, , , ,		213 *			HAVE?	AROS0213	
	0000B8 9802		000BC	214	BCL	ERRORO2	YES IT SHOULD HAVE BUT DID NOT	AROS0214	
<u> </u>									
, ·	0000BA 8811		000AC	216	BZL	TEST05	BRANCH TO SET NEXT INSTRUCTION	AROS0216	
$\rightarrow$	0000BC 7004	0 70	•	218 ERROR02	OUT	0,STOP	BRANCH ON BIT INSTRUCTION FAILED	AROS0218	
						•			

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785327 LOGIC: CW108

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

						221 222				CAUSE THE GROUP 1, 2, AND 3 REGISTERS* ORRECT PARITY IN THE REGISTERS *	AROSC221 AROS0222
1	0000BE					224	SMIN01	EQU	*		AROS0224
	0000BE	8174	1(1)			225		LRI	R1(1), X'74'	LOAD OUTPUT INSTRUCTION	AR050225
ر بر						226	*			**** ADDRESS SENSITIVE ****	AROS0226
į.	0000C0	83C8	3(1)			227		LRI	R3(1),X'C8'	LOAD ADDRESS OF OUTPUT INSTRUCTION	AROS0227
						228				**** ADDRESS SENSITIVE ****	AROS0228
	0000C2						SMIN02	EQU	*		AROS0229
_	0000C2		1(1)			230		ARI	R1(1), X'10'	UPDATE INSTRUCTION	AROS 0 2 3 0
)	0000C4	F886	1(0,7	<b>7</b> )	000CC	231		BB	R1(0,7),SMIN04	BRANCH WHEN GROUP 1 IS CORRECTED	AROS0231
	0000C6					233	SMIN03	EQU	•		AROS0233
`,	0000C6	3181	1	3		234		STH	R1,0(R3)	STORE OUTPUT INSTRUCTION	AROS0234
-	0000C8			08		235		OUT	RO, X 08 °	***** THIS INSTRUCTION IS CHANGED **	
	0000CA				000C2	236		В	SMIN02	BRANCH TO CONTINUE UPDATING OF	AROS0236
						237	*		•	OUTPUT_INSTRUCTION	AROS0237
	0000CC					230	SMIN04	EQU	•		AROS0239
<b>.</b>	0000CC	D884	1(0,3	1)	000D2	240	Serrior	BB	R1(0,3),ESCCHK1	BRANCH WHEN GROUP 2 AND 3 ARE	AROS0240
•	000000	D004	110,3	, ,	00002	241	*	. 00	KI (U, 3) / EBCCHKI	CORRECTED	AROS0241
	0000CE		1(0)			243		LRI	R1(0),X'10'	SET UP TO CORRECT GROUP 2 AND 3 RE3	AROS0243
	0α0000	A80D			000C6	244		В	SMIN03	BRANCH TO CORRECT PARITY OF GROUP 2	AROS0244
						245	*			AND GROUP 3 REGISTERS	AROS0245
•						247	*****			*********	AROS0247
	0000D2						ESCCHK1	EQU	*	***************************************	AROS0247
٠.	0000D2	719C	1	79		249	ESCURI	IN	R1, X'79'	INPUT UTILITY REG FOR NO-ESCAPE BIT	AROS0249
•	0000D4		1(1,7		8 d000	250		BB	R1(1,7), LROS01	BRANCH IF BIT IS ON FOR NO ESCAPE	AROS0250
	0000D4		1 '	•	006FC	251		B	ESCAPE1	BRANCH TO ESCAPE TO CORRECTED CODE	AROS0251
<b>.</b>	0006FC						ESCAPE1		SROS+X'6FC'	Timon to domina to commutation cond	AROS0252
·									ROS ESCAPE		AROS0253
			•.				*****		**********	***********************	
•				•							

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785328 LOGIC: CW109

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

						258 259 260 261	*	MACI FOR	HINE ADA	CHECK ERROR REGISTER,	AND THE INTERRUPT REQUEST GROUP 1 • IPL LEVEL 1 REQUEST WAS THE CAUSE •	AROS0258 AROS0259 AROS0260 AROS0261
Ď.	0000D8 0000D8 <b>71</b> DC	-		<b>7</b> D		264	LROS01	]	EQU I N	* R1, MACHK	GET MACHINE CHECK ERROR REGISTER	AROS0263 AROS0264
	0000DA 0185	_		0 76		265 267			STH In	R1,4(R0) R1,X'76'	SAVE MACHINE CHECK ERROR REGISTER	AROS0265
10	0000DE 718C			0		268 269	*		en Sth	R1,2(R0)	GET INTERRUPT REQUEST GROUP 1 FOR ADAPTERS SAVE INTERRUPT REQUEST GROUP 1 FOR	AROS0267 AROS0268 AROS0269
AM.	0000000			Ū		270	*	•	<b>314</b>	RIJ Z (RO)	ADAPTERS	AROS0270
11	0000E0 71EC	_		7E		27?			IN	R1, INTGP1	GET INTERRUPT REGUEST GROUP 1	AROS0272
	0000E2 0187	1		0		273			STH	R1,6(R0)	SAVE INTERRUPT REQUEST GROUP 1	AROS0273
	0000E4 F902 0000E6 7004		(1,6	) 70	000E8	275 276			BB OUT	R1(1,6),MIROS01 0,STOP	IS THIS AN IPL LEVEL 1 REQUEST ?	AROS0275 AROS0276

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785329 LOGIC: CWIIO

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STA	CATEMENT
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DOS CL3-6 02/24/72

				279 * T	HIS IS	THE BEGINNING OF TH	E CHANNEL HANDLING ROS	* AROS0279	
Ð									
1 a								* AROS0282	
							· ·	* AROS0283	
~. ~.,/				284 * S	INGLE S	SUBCHANNEL ADDRESS I	S ACTIVE.	* AROS0284	
* 17	0000E8			286 MIROS01	EQU	•		AROS 0 2 8 6	
ð	0000E8 33C8	3 3		287	XR	R3,R3	CLEAR REG 3	AROS0287	
	0000EA 8110	1(1)		288	LRI	R1(1),X'10'	RESET TEST MODE	AROS0288	
	0000EC 7194	1 79		289	OUT	R1, X'79'	OUTPUT TO RESET TEST MODE	AROS0289	
2						•			
	0000EE 8108	1(1)		291	LRI	R1(1),X°08°	SET CHANNEL INTERFACE ENABLE	AROS0291	
	0000F0 6174	1 67		292	OUT	R1,ADERCON	OUTPUT TO SET CHANNEL INTERFACE	AROS0292	
ð				293 *			ENABLE	AROS0293	
	0000F2 617C	1 67		295	IN	R1, ADERCON	INPUT TO CHECK THAT THE CHANNEL	AROS0295	
3				296 *	<del> </del>		INTERFACE IS ENABLED	AROS0296	
	0000F4 E902	1(1,4)	000F8	297	BB	R1(1,4),MIROS02	BRANCH IF CHANNEL INTERFACE IS	AROS0297	
				298 *			ENABLED	AROS0298	
E									
	0000F6 A811	* •	000E8	300	В	MIROS01	BRANCH TO RETRY ENABLE	AROS0300	
~									
<b>™</b> . ₩									
	0000F8			303 MIROS02	EQU	*		AROS0303	
	0000F8 8602	7(0)		304	LRI	R7(0),X'02'	SET IPL REQUIRED SENSE	AROS0304	
فه	0000FA E9B4	1(1,5)	00130	305	BB	R1(1,5), MIROS 09	BRANCH IF SINGLE SUBCHANNEL ADDRESS		
		-		306 *			IS ACTIVE	AROS0306	
		*							
									•

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

1(1,4)

P/N 1785330 LOGIC: CWIII

LEV 3 INIT SEL INT

DOS CL3-6 02/24/72

AROS0335

AROS0337

LOC	OBJ CODE	R1S1M R2S2 ADDR	STMT	SOURCE STATEMENT	

335

337

00104

					309				SET DEVICE END AND UNIT CHECK STATUS	
					310	T     AN	ID PREI	PARE FOR ITS OUTPUT	· · · · · · · · · · · · · · · · · · ·	AROS0310
0000FC 0000FE	8706	7(1)			312 313	MIROS03	LRI EQU	-R7(1),X*06*	SET DEVICE END AND UNIT CHECK STATUS	AROS0312 AROS0313
0000FE	8160	1(1)			314 315	•	LRI	R1(1),X*60*	SET PROGRAM LEVEL 3 INTERRUPT AND RESET CHANNEL ADAPTER LEVEL 1	AROS0314 AROS0315
000100	6174	1	67		316 317	*	OUT	R1, ADERCON	INTERRUPT SET LEVEL 3 INTERRUPT	AROS0316 AROS0317
000102	820F	3(0)			319 320 321		LRI	R3(0),X'0F'	SET RN FINAL TRANSFER SEQ, INITIAL SELECTION RESET, DATA/STATUS SERVICE RESET AND PROGRAM INTERRUPI RESET	AROS0319 AROS0320 AROS0321
					324			<del></del>	LOOP WAITING FOR A LEVEL 1 INTERRUPT *	
					325 326			ING AN ERROR OR A L		AROS0325 AROS0326
000104						MIROS04	EQU	*		AROS0328
000104 000106		1 (0,5	76 5)	00110	329 330		IN BB	R1,X'76' R1(0,5),MIROS05	GET LEVEL 1 INTERRUPT REQUESTS BRANCH IF CA LEVEL 1 INTERRUPT	AROS0329 AROS0330
000108			77		332		IN	R1, X'77'	GET LEVEL 3 INTERRUPT REQUESTS	AR050332
00010A	D990	1(1,	3)	0011C	333 334	*	BB	R1(1,3),MIROS06	BRANCH IF DATA/STATUS SERVICE LEVEL 3 INTERRUPT	AROS0333 AROS0334
000400	7036	4 / 4		000.00	225			D4 44 W WEDG44	ame a summant sum	22020235

R1(1,4),MIROS12

MIROS04

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00010C E936

00010E A80D

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

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E.C. 309538

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

P/N 1785331 LOGIC: CW112

DOS CL3-6 02/24/72

ð						340 341 342	<b>+</b> 1	INTERR	UPT, RESET THE LEVEI	SET SENSE FOR A CHANNEL ADAPTER LEVEL*  1 INTERRUPT, AND IF THE CHANNEL IS *  1 IS TO BE PRESENTED. *	
J.	000110 000110	8612	7(0)			344 345 346	MIROS05	EQU LRI	* R7(0),X'12'	SET EQUIPMENT CHECK AND IPL REQUIRED SENSE	AROS0344 AROS0345 AROS0346
) )	000112 000114		1 (1,		00134	348 349 350	•	IN BB	R1, ADERCON R1(1,5), MIROS10	BRANCH IF SINGLE SUBCHANNEL ADDRESS IS ACTIVE	AROS0348 AROS0349 AROS0350
•	000116 000118		1(1)	67		352 353		LRI OUT	R1(1),X'20' R1,ADERCON	SET BIT FOR RESET OF L 1 INTERRUPT RESET LEVEL 1 INTERRUPT	AROS0352 AROS0353
•	00011A	A808			00124	355		В	MIROSO8		AROS0355
•					•	357 358			OWING INSTRUCTIONS OF		AROS0357 AROS0358
1	00011C 00011C	6764	7	66		360 361	MIROS06	EQU OUT	* R7, RNSTAT	OUTPUT STATUS	AROS0360 AROS0361
*	00011E 00011E	617C	1	67		363 364 365	MIROS07	EQU In	* R1,ADERCON	INPUT TO GET SINGLE SUBCHANNEL ADDRESS	AROS0363 AROS0364 AROS0365
	000120 000122		1 3	63 62		366 367 368		OUT	R1,STSVAD R3,SERCON	OUTPUT TO SET SINGLE SUBCHANNEL ADDRESS INTO SERVICE ADDRESS REGOUTPUT TO RESET LEVEL 3	AROS0366 AROS0367 AROS0368
) )				·		370 371 372	* IN	rerrup:	OWING INSTRUCTIONS W	N LEVEL 3 INTERRUPT, OR A DATA *	AROS0370 AROS0371 AROS0372
ე ე	000124 000124 000126		1 1(0,	76 5)	00110	374 375 376	MIROS08	EQU IN BB	* R1, X'76' R1(0,5), MIROS 05	GET LEVEL 1 INTERRUPT REQUESTS BRANCH IF LEVEL 1 INTERRUPT	AROS0374 AROS0375 AROS0376
N. Jan	000128 00012A		1 (1,	77 4)	00144	378 379		IN BB	R1, X°77° R1(1, 4), MIROS12	GET LEVEL 3 INTERRUPT REQUESTS LEVEL 3 INITIAL SELECTION INTERRUPT	AROS0378 AROS0379
	00012C	D9FC	1(1,	3)	001AA	381		вв	R1(1,3),MIROS25	LEVEL 3 DATA SERVICE INTERRUPT	AROS0381
<b></b>	00012E	A80D			00124	383		В	MIROS08		AROS0383

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785332 LOGIC: CW113

LOC	OBJ	CODE	R1S1M	<b>R2S2</b>	ADDR	STMT	SOURCE	STATEMENT
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DOS CL3-6 02/24/72

						386 <b>*</b> 38 <b>7 *</b>					AROS0386 AROS0387
•											
<b>₹•</b> .	000130 000130	7170	1	77		389 MIROS 390	509 E	QU	* R1,X°77°		AROS0389 AROS0390
تحند	000130	1110	1	,,		390	1.	(4	KI'V //		AKU303 90
	000132	E904	1(1,	4)	00138	392 393 *	B	В	R1(1,4),MIROS11	BRANCH IF INITIAL SELECTION LEVEL 3 INTERRUPT	AROS0392 AROS0393
	000134					395 MIROS	510 E	QU	*		AROS0395
9	000134	870E	7(1)			396 397 *		RI	R7(1),X°0E°	SET CHANNEL END, DEVICE END, AND UNIT CHECK STATUS	AROS0396 AROS0397
•	000136	A83B			000FE	399	В		MIROS03	BRANCH TO DO OUTPUT OF STATUS	AROS0399
3	000138					402 MIPOS	:11 F/	០០	•		AROS0402
	000138	611C	1	61		403	II E		R1, INSEADCM	GET ADDRESS OF SUBCHANNEL REQUESTING	AROS0402
1					•	404 *				SERVICE	AROS0404
_	00013A	657C	5	67		406	I:I	N	R5, ADERCON	GET ADDRESS OF SINGLE SUBCHANNEL	AROS0406
<u></u>	00013C	8100	1(1)			408		RI	R1(1),X'00'	CLEAR BYTE 1 OF REG 1	AROS0408
	00013E		5(1)			409		RI	R5(1), X'00'	CLEAR BYTE 1 OF REG 5	AROS0409
	000440	1500	-			h 4 4		_	D.F. D.4	105 10000000 TOUL	30000444
	000140 000142		5	1	00134	411 412	XI Bo	K CL	R5,R1 MIROS10	ARE ADDRESSES EQUAL BRANCH IF NOT EQUAL	AROS0411 AROS0412
<u>~</u> ₩	000142	, U.L.B.			44724	746	D.	~ =		Dilition II not byons	111(000412

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E.C. 309538

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785333 LOGIC: CW114

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

			415 * THE FOLLOWING INSTRUCTIONS DETERMINE THE REASON FOR THE INITIAL * AROSO419416 * SELECTION LEVEL 3 INTERRUPT AND BRANCH TO THE CORRECT HANDLING * AROSO419417 * ROUTINE FOR EACH CAUSE OF THE LEVEL 3 INTERRUPT. * AROSO419417 * AROSO41941								
000144 000144 8206	3(0)		419 MIROS12 420 421 *	EQU LRI	* R3(0),X*06*	SET INITIAL SELECTION RESET AND DATA/STATUS SERVICE RESET	AROS0419 AROS0420 AROS0421				
000146 610C	1 60		423 424 *	IN	R1, INSECO	INPUT TO FIND REASON FOR INITIAL SELECTION LEVEL 3 INTERRUPT	AROS0423 AROS0424				
000148 F8D8	1(0,7)	001A2	426	вв	R1(0,7),MIROS24	BRANCH IF SYSTEM RESET	AROS 0 4 2 6				
00014A C8CC	1(0,1)	00198	428	ВВ	R1(0,1),MIROS23	BRANCH IF INTERFACE DISCONNECT	AROS0428				
00014C F831	1(0,6)	0011E	430 431 *	ВВ	R1(0,6),MIROS07	BRANCH IF STACKED STATUS HAS BEEN CLEARED	AROS0430 AROS0431				
00014E E8B6	1(0,5)	00186	433	BB	R1(0,5),MIROS20	BRANCH IF STACKED INITIAL STATUS	AROS0433				
000150 D8AA	1(0,3)	0017C	435	ВВ	R1(0,3),MIROS18	BRANCH IF BUS OUT CHECK	AROS0435				
000152 C808	1(0,0)	0015C	437	ВВ	R1(0,0),MIROS15	BRANCH IF INITIAL SELECTION	AROS0437				
000154 8612	7(0)		440	LRI	R7(0),X'12'	SET IPL REQUIRED AND EQUIPMENT CHECK	AROS0440				
000156 000156 870E	7(1)		442 MIROS13 443 444 *	EQU LRI	* R7(1),X'0E'	SET CHANNEL END, DEVICE END, AND UNIT CHECK STATUS	AROS0442 AROS0443 AROS0444				
000158 000158 D208	3(0)		446 MIROS14 447	EQU ORI	* R3(0),X*08*	SET FINAL STATUS TRANSFER STATE	AROS0446 AROS0447				
00015A A841		0011C	449	В	MIROS06	BRANCH TO OUTPUT STATUS	AROS0449				

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785334 LOGIC: CW115

LOC OBJ C	CODE R1S1M	R2S2 ADDR	STMT	SOURCE	STATEMENT
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DOS CL3-6 02/24/72

<b>)</b>						452 453			OWING INSTRUCTIONS ( INITIAL SELECTION		AROS0452 AROS0453
*. 	00 01 5C 00 01 5C	611c	1	61		455 456 457	MIROS15	EQU IN	* R1, INSEADCM	INPUT COMMAND THAT IS ACTIVE FOR INITIAL SELECTION	AROS0455 AROS0456 AROS0457
*. .a	00015E	80FF	1(0)			459		LRI	R1(0),X°FF°	CONDITION BYTE ZERO FOR OVERFLOW	AROS0459
>	000160	91F6	1(1)			461 462	•	ARI	R1(1), X'F6'	ADDITION OF F6 SO THAT ANY COMMAND OF 0A OR GREATER WILL CAUSE A CARRY	AROS0461 AROS0462
	000162	9814			00178	464 465	*	BCL	MIROS17	BRANCH IF COMMAND NOT VALID FOR SINGLE SUBCHANNEL ADDRESS	AROS0464 AROS0465
	000164 000166		1(1)		00174	467 468		ARI BCL	R1(1),X'01' MIROS16	ADD ONE TO CHECK FOR COMMAND X'09' BRANCH IF WRITE BREAK POINT COMMAND	AROS0467 AROS0468
	000168 00016A		1(1)		00178	470 471 472		ARI BCL	R1(1), X'03' MIROS17	ADD THREE TO CHECK FOR X'06', X'07', OR X'08' COMMAND BRANCH IF COMMAND IS NOT VALID FOR	AROS 0471 AROS 0472
ie V	00016C	9101	1(1)			473 475 476		ARI	R1(1),X'01'	SINGLE SUBCHANNEL ADDRESS  ADDITION OF 01 SO THAT IPL COMMAND WILL CAUSE A CARRY	AROS0473 AROS0475 AROS0476
•	00016E	9858			001C8	477		BCL	MIROS30	BRANCH IF IPL COMMAND	AROS0477
•	000170	9101	1(1)			479 480	*	ARI	R1(1),X°01°	ADDITION OF 01 SO THAT SENSE COMMAND WILL CAUSE A CARRY	AROS0479 AROS0480
	000172	981C			00190	481		BCL	MIROS21	BRANCH IF SENSE COMMAND	AROS0481

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785335 LOGIC: CW116

LOC	OBJ CODE R1S1M R2S2 AL	OR STMT	SOURCE STATEMENT	DOS CL3-6 02/24/72
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				484	* TH	IE FOLI	LOWING INSTRUCTIONS	SET SENSE DATA IN REGISTER 7	* AROS0484
ě	000174			1196	MIROS16	EQU	•		AROS0486
	000174 8602	7(0)		487	MIROSIO	LRI	R7(0),X°02°	SET IPL REQUIRED SENSE	AROS0487
-	000174 8002 000176 A823	7(0)	00156	488		В	MIROS13	BRANCH TO SET AND OUTPUT STATUS	AROS0488
	000178				MIROS17	EQU	•		AROS0490
•	000178 8682	7(0)		491		LRI	R7(0),X'82'	SET COMMAND REJECT AND IPL REQUIRED	
-				492	•			SENSE	AROS0492
•	00017A A827		00156	493		В	MIROS13	BRANCH TO SET AND OUTPUT STATUS	AROS0493
	00017C			495	MIROS18	EQU	*		AROS0495
	00017C 8622	7(0)		496		LRI	R7(0), X*22*	SET BUS-OUT CHECK AND IPL REQUIRED	AROS0496
3				497	•			SENSE	AROS0497
	00017E A863		0011E	498		В	MIROS07	BRANCH TO SET AND OUTPUT STATUS	AROS0498
3	000180			500	MIROS19	EQU	•		AROS0500
•	000180 8622	7(0)		501		LRI	R7(0),X°22°	SET BUS-OUT CHECK AND IPL REQUIRED	AROS0501
				502	*			SENSE	AROS0502
ŧ	000182 8702	7(1)		503		LRI	R7(1),X°02°	SET UNIT CHECK STATUS	AROS0503
	000184 A82F		00158	504		В	MIROS14	BRANCH TO PRESENT STATUS	AROS0504
u u									
				507 <b>5</b> 08			OWING INSTRUCTIONS STACKED INITIAL STA		* AROS0507 * AROS0508
ě	000186			510	MIROS20	EQU	•		AROS0510
	000186 D889	1(0,3)	00180	511		BB	R1(0,3),MIROS19	BRANCH IF BUS OUT CHECK	AROS0511
	000188 611C	1 61		513		IN	R1, INSEADCM	INPUT COMMAND	AROS0513
	00018A F1FF	1(1)		514		TRM	R1(1), X'FF'	TEST FOR COMMAND	AROS0514
	00018C 882E		001BC	515		BZL	MIROS27	BRANCH DUE TO TEST I/O COMMAND	AROS0515
	00018E A828		001B8	517		В	MIROS26	BRANCH DUE TO NO-OP COMMAND	AROS0517
٠.		•							

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785336 LOGIC: CW117

LOC	OBJ	CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATEMENT
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DOS CL3-6 02/24/72

<b>)</b>			520	* OUTPUT	SENSE INFORMATION		* AROS0520
	000190		522	MIROS21 EQU	•		AROS0522
	000190 6744	7 64	523	OUT	R7,DATA12	LOAD SENSE DATA	AROS0523
	000190 0744 000192 D280	3(0)	524	ORI	R3(0), X'80'	SET OUTBOUND DATA	AROS0524
	000194 8301	3(1)	525	LRI	R3(1), X'01'	SET CODE COUNT AT BINARY 1	AROS0525
	000196		<b>52</b> 6	MIROS22 EQU	*		AROS0526
	000196 A87B	.0	011E 527	В	MIROS07	BRANCH TO DO OUTPUT	AROS0527
<b>E</b>							
			531			TAKE CARE OF SYSTEM RESET, SELECTIVE	
•			532	* RESET,	AND STATUS CLEARED.		* AROS0532
	000198		534	MIROS23 EQU	*		AROS0534
<b>3</b> .	000198 611C	1 61	535	IN	R1, INSEADCM	INPUT FOR COMMAND COMPARE	AROS0535
<b>3</b>	00019A 91FB	1(1)	536	ARI	R1(1), X'FB'	ADD CONSTANT SO IPL COMMAND CAUSES	AROS0536
			537	•	•	A ZERO RESULT	AROS0537
Ĭ.	00019C F1FF	1(1)	538	TRM	R1(1), X'FF'	IS RESULT ZERO	AROS0538
	00019E 8844	00	)1E4 539	BZL	MIROS34	BRANCH TO CHECK IPL TRANSFER	AROSO539
: 'e	0001A0 A82F	0	0174 541		MIROS16	BRANCH TO SET SENSE AND STATUS	AROS0541
-	0001A2		543	MIROS24 EQU	*		AROS0 5 4 3
نو	0001A2 8602	7(0)	544	LRI	R7(0),X*02*	SET IPL REQUIRED SENSE	AROS0544
	0001A4 8110	1(1)	545	LRI	R1(1),X'1C'	SET RESET SYSTEM RESET	AROS0545
ery ser	0001A6 6174	1 67	546	OUT	R1, ADERCON	OUTPUT TO RESET SYSTEM RESET	AROS0546
	0001A8 A887	0	0124 548	В	MIROS08		AROS0548

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785337 LOGIC: CW118

LOC OBJ CODE R1S1M R2S2 ADD	STMT	SOURCE STATEMENT	DOS CL3-6 02/24/72

•				552 * SE	RVICE	LEVEL 3 INTERRUPT A	AND BRANCH TO THE CORRECT HANDLING *	AROS0551 AROS0552 AROS0553
<u></u>	0001AA	240		555 MIROS25	EQU	* pa(0) v(0)		AROS0555
	0001AA 8202 0001AC 612C	3(0) 1 62		556 557	LRI IN	R3(0),X'02' R1,SERCON	SET DATA/STATUS SERVICE RESET INPUT TO FIND REASON FOR DATA	AROS0556 AROS0557
Ò	0001AE D98C	1(1,3)	001BC	558 <b>*</b> 559	ВВ	R1(1,3),MIROS27	SERVICE LEVEL 3 INTERRUPT BRANCH IF STACKED STATUS	AROS0558 AROS0559
9	0001B0 E892	1(0,5)	001C4	561 562 *	ВВ	R1(0,5),MIROS29	BRANCH IF CHANNEL STOP OR INTERFACE DISCONNECT	AROS0561 AROS0562
Ì	0001B2 C90C	1(1,0)	001C0	564	вв	R1(1,0),MIROS28	BRANCH IF BUS-OUT CHECK	AROS0564
	0001B4 E821	1(0,4)	00196	566	ВВ	R1(0,4),MIROS22	BRANCH DUE TO FINAL STATUS TAKEN	AROS0566
•	0001B6 C89C	1(0,1)	00104	568	ВВ	R1(0,1),MIROS32	BRANCH IF IPL COMMAND	AROS0568
8	0001B8 0001B8 <b>87</b> 0C	7(1)		570 MIROS26 571 572 *	EQU LRI	* R7(1), X'0C'	SET CHANNEL END AND DEVICE END STATUS	AROS0570 AROS0571 AROS0572
î	0001BA A865		00158	573	В	MIROS14	BRANCH TO OUTPUT STATUS	AROS0573
4.5 	0001BC 0001BC D208 0001BE A8A3	3(0)	0011E	575 MIROS27 576 577	EQU ORI B	* R3(0),X'08' MIROS07	SET FINAL STATUS SEQ BRANCH TO RESET LEVEL 3 INTERRUPT	AROS0575 AROS0576 AROS0577
			•					
e Je				580 * TH	E FOL	LOWING INSTRUCTIONS	SET SENSE INFORMATION INTO REGISTER 7*	AROS0580
(%) (%)	0001C0 0001C0 8622	7(0)		582 MIROS28 583 584 *	EQU LRI	* R7(0),X'22'	SET BUS OUT CHECK AND IPL REQUIRED SENSE	AROS0582 AROS0583 AROS0584
)	0001C2 A86F		00156	585	B	MIROS13	OBHOE.	AROS0585
<b>3</b>	0001C4 0001C4 C89E	1(0,1)	001E4	587 MIROS29 588	EQU BB	* R1(0,1),MIROS34	BRANCH IF IPL COMMAND	AROS0587 AROS0588
•	0001C6 A855		00174	590	В	MIROS16	BRANCH TO SET SENSE AND STATUS	AROS0590

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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785338

LOGIC: CWI19

LOC	OBJ	CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATEMENT

DOS CL3-6 02/24/72

•								
<b>3</b>							SET STARTING ADDRESS AND DATA SINIT SEL LEVEL 3 INT	AROS0594 AROS0595
	0001C8			597 MIROS30	EQU	*	ann anns 10000 an 5	AROS0597
	0001C8 8404	5(0)		598 599	LRI LRI	R5(0),X'04' R5(1),X'00'	SET START ADDRESS IN REG 5	AROS 0 5 9 8
age.	0001CA 8500	5(1)		J77	PKT	R3(1), 2 00		AROS0599
	0001CC 5583	5 5		601	STH	R5,2(R5)	STORE BAD COUNT AT LOCATION X 402	AROS0601
9	0001CE			603 MIROS31	EQU	•		AROS0603
	0001CE D240	3(0)		604	ORI	R3(0),X'40'	SET INBOUND DATA TRANSFER	AROS0604
£	0001D0 8302	3(1)		605	LRI	R3(1), X'02'	CT=2	AROS0605
	0001D2 A8B7		0011E	606	В	MIROS07	BRANCH FOR INTERRUPT HANDLING	AROS0606
<b>)</b>								
<b>3</b>				611 * MA			WO BYTES, AND BUMP STORAGE ADDRESS	AROS0610 AROS0611 AROS0612
	00.04.58			614 WIDOGGO	7011	•		3 D 0 2 0 6 1 H
	0001D4 0001D4 EC08	5(0,4)	001DE	614 MIROS32 615	EQU BB	* R5(0,4),MIROS33	MAXIMUM COUNT EXCEEDED	AROS0614 AROS0615
nab.	OVOIDY ECOO	3(0,4)	OOLDE	013	55	K3(0,47,M1R0333	MAXIMON COOM! BACBEDED	AROSOUTS
مد	0001D6 614C	1 64		617	IN	R1, X 64 °	PUT INBOUND DATA IN REG 1	AROS0617
	0001D8 5181	1 5		618	STH	R1,0(R5)	STORE FIRST TWO DATA BYTES	AROS0618
)	000452 0500	5.44 \		<b></b>				
	0001DA 9502	5(1)		620	ARI	R5(1),X'02'	BUMP STORAGE ADDRESS BY TWO	AROS0620
;	0001DC A811		001CE	622	В	MIROS31		AROS0622
بد.								•
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AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785339 LOGIC: CW120

	roc	OBJ CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATE	MENT	DOS CL3-6	02/24/72
ě						625 626				ILL DO A COUNT COMPARE, RESET ART OF LOADED MODULE	AROS 0 6 2 5 AROS 0 6 2 6
3	0001DE 0001DE 0001E0		7(0) 7(1)			628 629 630 631	MIROS33	EQU LRI LRI	* R7(0),X*02* R7(1),X*0F*	SET IPL REQUIRED SENSE SET CHANNEL END, DEVICE END, UNIT CHECK, AND UNIT EXCEPTION STATUS	AROS0628 AROS0629 AROS0630 AROS0631
	0001E2	A88D			00158	632		В	MIROSI4	CHECK, IND COLL BRODE TOOL STREET	AROS0632
	•									•	
* •	0001E4 0001E4	8004	1(0)			636 637 638	MIROS34	EQU LRI	* R1(0), X*04*	LOAD HI ORDER BYTE WITH ADDRESS OF BYTE CT	AROS0636 AROS0637 AROS0638
<b>3</b>	0001E6 0001E8		1(1)	1		639 640		LRI LH	R1(1),X'02' R1,0(R1)	LOAD LOW ORDER BYTE PUT BYTE CT IN REG 1	AROS0639 AROS0640
•	0001E8		1(0)	•		642		ARI	R1(0),X*04*	ADD X '400' TO BYTE COUNT	AROS0642
\$	0001EC 0001EE		1	5	001DE	644 645		XR BCL	R1,R5 MIROS33	COMPARE KNOWN AND REAL BYTE CTS BRANCH TO SET UNIT CE DE UC IPL REQ	AROS0644 AROS0645
	0001F0 0001F2		1(0)	77		647 648		LRI- OUT	R1(0),X'C0' R1,X'77'	SET BIT TO RESET IPL LEV 1 & CCU CK RESET IPL LEV 1 IN REG 77	AROS0647 AROS0648
	0001F4 0001F6		1(0)	62		650 651		LRI OUT	R1(0), X'12' R1, X'62'	SET BIT FOR CE STATUS TRANSFER CHANNEL END STATUS SEQUENCE REQ	AROS0650- AROS0651
· •	0001F8 0001FA 0001FC 0001FE 000200	81FE 1001	1(0) 1(1) 0	1		653 654 655 656 657	SMI NEND	LRI LRI LH DC EOU	R1(0), X*01* R1(1), X*FE* R0,0(R1) X*0404*	SET UP FOR XFER TO LOADED MODULE FORCE BRANCH TO LOADED MODULE	AROS3653 AROS0654 AROS0655 AROS3656 AROS3657
× **								_		INI CHANNEL ADAPTER (TYPE 1)	AROS0659

AROS XXXX MINI CHANNEL ADAPTER ROS CODE

P/N 1785340

LOGIC: CW121

LOC OBJ CODE R1S1M R2S2 ADDR STMT SOURCE STATEMENT

DOS CL3-6 02/24/72

CHANNEL ADAPTER ROS CODE P/N 1785341 LOGIC: CW122 AROS >

	LOC	OBJ	CODE	R1S1M	R2S2	ADDR	STMT	SOURCE	STATE	MENT			•	DOS	CL3-6	02/24/72
	00007E						662	INTGP1	EQU	X'7E'	LEVEL 1	AND 2	2 INTERRUPT	GROUP		AROSO662
	00007D						663	MACHK	EQU	X'7D'	MACHINE	CHECK	KS			AROSC663
	000070						664	STOP	EQU	x'70'	HARDSTO	P				AROS0664
	000000						665	R0	EQU	0						AROS0665
à	000001						666		EQU	1						AROS0666
	000002						667	R2	EQU	2						AROS0667
	000003						668		EQU	3						AROS0668
ne.	000004						669		EQU	4						AROS0669
J.	000005								EQU	5						AROS0670
	000006						671		EQU	6						AROS0671
~	000007						672		EQU	7						AROS0672
<i>.</i>	000060							INSECO	EQU	X'60'						AROS0673
	000061							INSEADCM		X'61'						AROS0674
Ł	000062							SERCUN	EQU	X'62'						AROS0675
	000063							STSVAD	EQU	X'63'						AROS0676
	000064							DATA12	EQU	X*64*						AROS0677
•	000066							RNSTAT	EQU	X'66'						AROS0678
	000067							ADERCON	EQU	X'67'						AROS0679
							680		END							AROS0680
•															•	
-																

CROSS-REFERENCE

P/N 1785342 LOGIC: CW123

	SYMBOL	LEN	VALUE	DEFN															
	ADERCON	00001	000067	00679	0292	0295	0317	0348	0353	0364	0406	0546							
	DATA12		000064		0523		<b>431</b> .	<b>5</b> 5 (5	0000			,							
	ERROR01		000030		0085	0087	0092	0098	0101	0117	0134	0137	0146	0156	0162	0170	0175	0182	
	ERROR02		0000BC		0210	0214	0072	0070	0202	UII.	0131	013.	01.0	4130	0102	01.0	02.3	0101	
	ESCAPE1		0006FC		0251														
5	ESCCHK1		0000D2		0240				•										
	INSEADCM		000061		0403	0456	0513	0535											
	INSECO		000060		0423														
•	INTGP1		00007E		0272														
	LROS 01		0000D8		0250														
4	MACHK		00007D		0264														
j	MIROS01		0000E8		0275	0300													
	MIROS02		0000F8		0297														
`	MIROS03		0000FE		0399														
<i>*</i>	MIROS04		000104		0337														
	MIROS05		000110		0330	0376													
t.	MIROSO6		00011C		0333	0449													
	MIROS07		00011E		0430	0498	0527	0577	0606										
	MIROS08		000124		0355	0383	0548												
t.	MIROSO9		000130		0305													•	
,	MIROS10		000134		0349	0412													
	MIROS11		000138		0392	• • • • •													
<b>.</b>	MIROS12		000144		0335	0379													
•	MIROS13		000156		0488	0493	0585											*	
	MIROS14		000158		0504	0573	0632												
	MIROS15		00015C		0437	03.3	0032												
/	MIROS16		000174		0468	0541	0590												
	MIROS17		000178		0464	0472	0370												
	MIROS18		00017C		0435	0112							•						
	MIROS19		000180		0511									,					
	MIROS20		000186		0433							som.							
	MIROS21		000190		0481														
	MIROS22		000196		0566														
	MIROS23		000198		0428														
	MIROS24		0001A2		0426								:						
	MIROS25		0001AA		0381														
	MIROS26		0001B8		0517	•													
	MIROS27		0001BC		0515	0559													
	MIROS28		0001C0		0564	0000									•				
	MIROS29		0001C4		0561														
1	MIROS30		0001C8		0477														
	MIROS31		0001CE		0622														
	MIROS32		0001D4		0568														
	MIROS33		0001DE		0615	0645													
÷	MIROS34		0001E4		0539	0588													
	RELOCF		000000		0018	4300													÷
•	RNSTAT		000066		0361														
•	RO RO		000000		0052	0052	0053	0054	0056	0057	0059	0060	0062	0063	0065	0066	0068	0069	0071
		00001		30003	0072	0179	0235	0265	0269	0273	0655	<b>444</b>	4045					•••	
2	R1	00001	000001	00666	0072	0038	0054	0084	0086	0089	0090	0091	0094	0095	0096	0100	0103	0104	0113
<b>y</b>			20001	3000	0114	0115	0116	0127	0132	0139	0143		0152	0153		0159	0160	0165	0167
					V T		~~~		~~~		72.10				•				
	DATE M	AR72																	

CROSS-REFERENCE

P/N 1785343 LOGIC: CW124

	SYMBOL	LEN	VALUE	DEFN															
					0172	0177	0192	0194	0201	0205	0209	0225	0230	0231	0234	0240	0243	0249	0250
					0264	0265	0267	0269	0272	0273	0275	0288	0289	0291	0292	0295	0297	0305	0314
					0317	0329	0330	0332	0333	0335	0348	0349	0352	0353	0364	0366	0375	0376	0378
					0379	0381	0390	0392	0403	0408	0411	0423	0426	0428	0430	0433	0435	0437	0456
þ					0459	0461	0467	0470	0475	0479	0511	0513	0514	0535	0536	0538	0545	0546	0557
•					0559	0561	0564	0566	0568	0588	0617	0618	0637	- 0639	0640	0640	0642	0644	0647
					0648	0650	0651	0653	0654	0655									
#*	R2		000002		005 <b>7</b>														
	R3	00001	000003	00668	0060	0133	0136	0141	0154	0155	0160	0161	0167	0169	0195	0209	0227	0234	0287
					0287	0319	0368	0420	0447	0524	0525	0556	0576	0604	0605				
ر الم	R4		000004		0063														
_	R5	00001	000005	00670	0066	0131	0133	0145	0159	0161	0169	0172	0174	0177	0181	0406	0409	0411	0598
					0599	0601	0601	0615	0618	0620	0644								
٦	R6		000006		0069														
	R7	00001	000007	00672	0034	0039	0040	0072	0123	0123	0125	0129	0136	0139	0153	0155	0165	0174	0179
					0181	0210	0212	0304	0312	0345	0361	0396	0440	0443	0487	0491	0496	0501	0503
•					0523	0544	0571	0583	0629	0630									
	SERCON		000062		0368	055 <b>7</b>													
_	SMINEND		000200		04.05														
)	SMINST		000000		0125								,					•	
	SMIN01		0000BE		0035														
_	SMIN02		0000C2		0236														
	SMIN03		0000C6		0244														
	SMIN04		0000CC		0231	2050												,	
_	SROS		000000		0018	0252													
	STARTMI		000010		0034	0000	0040	0076											
	STOP		000070		0031	0800	0218	0276						•					
·S.	STSVAD		000063		0366														
**	TEST01		000002		0202														
	TEST02		000034		0079														
	TEST03		000056		0127														
al report	TEST04				0105														
	TEST05		0000AC		0216	04.00													
4	TEST06	00002	0000B2	00209	0041	0199													
į.													:						
												,							

NO STATEMENTS FLAGGED IN THIS IFTAMBLY

E.C. 309538

P/N 1986969 LOGIC: CW301

SIMUL	ATION   A A	RUN LI N X EN Y EN	STING TRY I TRY I	FOR CA N A REGI N A REGI	TYPE 1 R STER FIE STER FIE	ROS IN	STRUCTI EQUAL EQUAL	TO TO	жининининининининининининининининининин	0001 0002 0003 0004 0005 0006 0007 0008 0009 0010
INST ADDR	MACH CODE	INST MNEM	CZ P	REGO (IAR)						0012 0013 0014 0015 0016 0017 018 019 020
0010 0012	00186 00186 0186 01884 02884 03884 04956 049564 0790 0790 0790 0790 0790 0790 0790 079	OUT ST OUT ST OUT ST OUT ST OUT ST B LRI BCL LRI BCL ORI	00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1	000012 000014 000016 000016 000016 000016 000012 000022 000024 000022 000028 000028 000034 000038 000038 000038 000038 000042 000042 000044 000044 000046 000046 000052 000052	0000 0000 000000 000000 000000 000000 0000					123456789012345678901234567890123 022345678900003333333456789000000000000000000000000000000000000

DATE OCT80 E.C. 344270

	Car	CC		C		<b>(</b> )			00	00		PS 17\$365							1	
11 11 11		INST	МАСН	INST	CZ F	REGO	REG1	REG3	REG5	REG7		F7-1 1/0-305	CUGING CW 2					and the second		
		ADDR	CODE	MNEM		(IAR)									2					
		0058 005A	0000 8000	LRI ORI		00005A	0X00FE 0X00FE					054 055								
		005C	9000	ARI	01 1	00005E	0X00FE					056								
		005E 0060		TRM BCL		L 000060 L 000062	0X00FE 0X00FE				,	057 058								
		0062	77C8	XR	01	L 000064	0X00FE		•	000000		059								
	*	0064 0066	7157 051C			L 000066 L 000068	00FFFF 00FFFF		OOFFFF	000000 000000		060 061								
		0068	0134	IN OUT		L 00006A	OOFFFF	OOFFFF	OOFFFF	000000		062								
	e. ue	006A		XR		L 00006C	00FFFF	000000		000000		063	•							
		006C 006E		BCL XR		L 00006E L 000070	00FFFF 00FFFF	000000	00FFFF 00FFFF	000000 000000		064 065								
		0070	9843	BCL	01 1	L 000072	OOFFFF	000000	OOFFFF	000000		066								
		0072 0074	17C8 0354	XR OUT		L 000074 L 000076	00FFFF 00FFFF	000000	00FFFF 000000	00FFFF 00FFFF		067 068								
	•	0074		IN		000078	000000	000000	000000	OOFFFF		069								
	٠,٠	0078	15C8	XR		00007A	000000	000000	000000	OOFFFF		070								
	<b>3</b> :	007A 007C	984D 8007	BCL LRI		00007C	000000 000 <b>7</b> 00	000000	000000	00FFFF 00FFFF		071 072								
		007E	1785	sth	10 1	000080	000700	000000	000000	OOFFFF		073					,			
	<b>a</b> .	0080 0082		LH XR		000082	000700	00FFFF 000000	000000	00PFFF 00FFFF		074 075								
	ă,	0084	9857	BCL		000086	000700	000000	000000	OOFFFF		077								
	•	0086	1585	STH		880000	000700	000000	000000	OOFFFF		078								
	\$	8800 A800	1305 53C8	LH XR		00008A	000 <b>7</b> 00 000 <b>7</b> 00	000000	000000	00FFFF 00FFFF		079 080				***				
	_	008C	985F	BCL	01 1	00008E	000700	000000	000000	OOFFFF	•	081								
	•	008E 0090	1786 1305	ST LH		000090	000700 000700	000000	000000	00FFFF 00FFFF		082 083								
		0092	53C8	XR		000094	000700	000000	000000	OOFFFF		084								
		0094	9867			000096		000000		OOFFFF		085								
		0096				000098 00009A	000 <b>7</b> 00	000000	00FFFF 000000	00FFFF 00FFFF		086 087								
44	m. raid	009A	986D	BCL	01 1	00009C	000700	000000	000000	OOFFFF		088								
		009C 009E				00009E	000700 000700	000000	000000	00FFFF 000000		089 090								
		00A0	75C8	XR	01 1	0000A2	000700	000000	000000			091								
-	•	00A2		BCL		L 0000A4	000700	000000	000000	000000		092				,				
		00A4 00A6		LRI LRI		0000A6	00CE06	000000	000000	000000		093 094					:			
	<i>*</i>	8A00	83B4	LRI	10 1	L 0000AA	00CE06	0000B4	000000	000000		095					,			
	7	00AA 00B2	A806 3181			L 0000B2	00CE06	0000B4 0000B4	000000			096 097								
	•	00 E4	CE06	BB	10 1	L 0000B6	00CE06	0000B4	000000	000000		098					el e			
	• ,	00B6 00B8		TRM BCL		0000B8	00CE06	0000B4	000000	000000		099								
	Sept.		8811	BZL		0000BA	00CE06	0000B4 0000B4	000000	000000 000000		100 101					<i></i>			
		00AC	9180	ARI	00 1	L 0000AE	00CE86	0000B4	000000	000000		102								
		00AE 00B0		BCL ORI		0000B0 0000B2	00CE86	0000B4	000000	000000 000000		103 104								
		<b>0</b> 0B <b>2</b>	3181	STH	10 1	L 0000B4	00CE86	0000B4	000000	000000		105								
	<b>2</b> .	00 24	CEOL	DD	10 1	MANADE	000000	00000#	000000	000000		106								

10 1 0000B6 00CE86 0000B4 000000 000000

01 1 0000B8 00CE86 0000B4

106

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DATE MAR72 E.C. 309538

	INST	MACH	INST	CZ P	REG0	REG1	REG3	REG5	REG7
	ADDR	CODE	MNEM	LL L	(IAR)				
	8800	9802	BCL		0000BA	00CE86	0000B4	000000	000000
	00BA 00AC	8811 9180	BZL ARI		0000AC	00CE86 00CF06	0000B4 0000B4	000000	000000
3	00AC	9180 98AF	BCL		. 0000B0	00CF06	0000B4	000000	000000
,	00B0	D00E	ORI	10 1	. 0000B2	00CF06	0000B4	000000	000000
	00B2	3181	STH		. 0000B4	00CF06	0000B4	000000	000000
<b>3</b> -	00B4 00B6	CF06 F6FF	BB TRM		. 0000B6 . 0000B8	00CF06 00CF06	0000B4 0000B4	000000	000000
	00B8	9802	BCL		0000BA	00CF06	0000B4	000000	000000
	00 BA	8811	BZL		. 0000AC	00CF06	0000B4	000000	000000
	00AC		ARI BCL		. 0000AE . 0000B0	00CF86 00CF86	0000B4 0000B4	000000	000000
•	00AE 00B0	98AF D00E	ORI		. 0000B0	00CF86	0000B4	000000	000000
	00B2	3181	STH	10 1	. 0000B4	00CF86	0000B4	000000	000000
^	00B4	CF86	BB		. 0000B6	00CF86	0000B4	000000	000000
<i>r</i> ,	00B6 00B8	F6FF 9802	TRM BCL		. 0000B8	00CF86 00CF86	0000B4 0000B4	000000	000000
	00BA	8811	BZL		0000AC	00CF86	0000B4	000000	000000
\$	00AC	9180	ARI	00 1	0000AE	00D006	0000B4	000000	000000
	00AE	98AF	BCL		0000B0	00D006	0000B4	000000	000000
•	00B0 00B2	D00E 3181	ORI STH		0000B2 0000B4	00DE06 00DE06	0000B4 0000B4	000000	000000
	00B4	DE06	BB		0000B4	00DE06	-3000B4	000000	000000
•	00B6	F6FF	TRM	01 1	0000B8	00DE06	0000B4	000000	000000
E	00B8	9802	BCL		. 0000BA	00DE06	0000B4	000000	000000
	00BA 00AC	8811 9180	BZL ARI		0000AC	00DE06	0000B4 0000B4	000000	000000
17	00AE	98AF	BCL		0000B0	00DE86	0000B4	000000	000000
٠.٠	00B0	D00E	ORI		0000B2	00DE86	0000B4	000000	000000
	00B2	3181	STH		0000B4	00DE86	0000B4	000000	000000
	00B4 00B6	DE86 F6FF	BB TRM	01 1	. 0000B6 . 0000B8	00DE86	0000B4 0000B4	000000	000000
	00B8	9802	BCL		0000BA	00DE86	0000B4	000000	000000
	00BA	8811	BZL		0000AC	00DE86	0000B4	000000	000000
	00AC	9180	ARI		. 0000AE	00DF06	0000B4	000000	000000
,	00AE 00B0	98AF D00E	BCL ORI		. 0000B0 . 0000B2	00DF06 00DF06	0000B4 0000B4	000000	000000
	00B2	3181	STH		. 0000B4	00DF06	0000B4	000000	000000
	00B4	DF06	BB		. 0000B6	00DF06	0000B4	000000	000000
•	00B6	F6FF	TRM		. 0000B8	00DF06	0000B4	000000	000000
	00B8 00BA	9802 8811	BCL BZL		. 0000BA	00DF06 00DF06	0000B4 0000B4	000000	000000
	00AC		ARI		. 0000AE	00DF86	0000B4	000000	000000
·'	00AE	98AF	BCL	00 1	. 0000B0	00DF86	0000B4	000000	000000
,	0080	DOOE	ORI		. 0000B2	00DF86	0000B4	000000	000000
*	00B2 00B4	3181 DF86	sth Bb		. 0000B4 . 0000B6	00DF86 00DF86	0000B4 0000B4	000000	000000
	00B4	F6FF	TRM		. 0000B8	00DF86	0000B4	000000	000000
	00B8	9802	BCL	01 1	. 0000BA	00DF86	0000B4	000000	000000
	00BA		BZL		. 0000AC	00DF86	0000B4	000000	000000
	00AC 00AE		ARI BCL		. 0000AE . 0000B0	00E006	0000B4 0000B4	000000	000000
,	00 BO	DOOE	ORI		0000B0	00E006	0000B4	000000	000000

DATE MAR72

			 <b>(</b>	Service .		(			0							C		
									85367		GIC:			, 				

										P/N 1/0536/
INST	MACH	Inst			REG0	REG1	REG3	REG5	REG7	
ADDR	CODE	MNEM	LL	L	(IAR)					
00B2	3181	STH	10	1	0000B4		0000B4	000000	000000	161
00B2	EE06	BB			0000B4	00EE06	0000B4	000000	000000	162
00B6	F6FF	TRM			0000B8	00EE06	0000B4	000000	000000	163
00B8	9802	BCL			0000B0	00EE06	0000B4	000000	000000	164
00BA	8811	BZL			0000BA	00EE06	0000B4	000000	000000	165
00AC	9180	ARI			0000AE	00EE86	0000B4	000000	000000	166
00AE	98AF	BCL			0000B0	00EE86	0000B4	000000	000000	167
00 BO	D00E	ORI			0000B0	00EE86	0000B4	000000	000000	168
00B2	3181	STH			C000B4	00EE86	0000B4	000000	000000	169
00B4	EE86	BB			0000B4	00EE86	0000B4	000000	000000	170
00B6	F6FF	TRM			0000B8	00EE86	0000B4	000000	000000	171
00B8	9802	BCL			0000BA	00EE86	0000B4	000000	000000	172
00BA	8811	BZL			0000AC	00EE86	0000B4	000000	000000	173
DOAC	9180	ARI			0000AE	00EF06	0000B4	000000	000000	174
OAE	98AF	BCL			0000B0	00EF06	0000B4	000000	000000	175
00 BO	D00E	ORI			0000B2	00EF06	0000B4	000000	000000	171 172 173 174 175 176
0B2	3181	STH			0000B4	00EF06	0000B4	000000	000000	177
00B4	EF06	BB			0000B6	00EF06	0000B4	000000	000000	178
00B6	F6FF	TRM			0000B8	00EF06	0000B4	000000	000000	179
00B8	9802	BCL			0000BA	00EF06	0000B4	000000	000000	180
OBA	8811	BZL			0000AC	00EF06	0000B4	000000	000000	181
OAC	9180	ARI			0000AE	00EF86	0000B4	-000000	000000	182
0 AE	98AF	BCL			0000B0	00EF86	0000B4	000000	000000	183
0 B0	DOOE	ORI -			0000B2	00EF86	0000B4	000000	000000	184
00B2	3181	STH			0000B4	00EF86	0000B4	000000	000000	185
0B4	EF86	BB			0000В6	00EF86	0000B4	000000	000000	186
0B6	F6FF	TRM			0000B8	00EF86	0000B4	000000	000000	183 184 185 186 188
00B8	9802	BCL			0000BA	00EF86	0000B4	000000	000000	189
OBA	8811	BZL			0000AC	00EF86	C000B4	000000	000000	190
0AC	9180	ARI			0000AE	00F006	0000B4	000000	000000	191
OAE	98AF	BCL			0000B0	00F006	0000B4	000000	000000	192
00B0	DOOE	ORI			0000B2	00FE06	0000B4	000000	000000	193
00B2	3181	STH			0000B4	00FE06	0000B4	000000		194
00B4	FE06	BB			0000B6	00FE06	0000B4	000000		
00B6	F6FF	TRM			0000B8	00FE06	0000B4	000000	000000	195 196
00B8	9802	BCL			0000BA	00FE06	0000B4	000000	000000	197
00 BA	8811	BZL			0000AC	00FE06	0000B4	000000	000000	198
DOAC	9180	ARI			0000AE	00FE86	0000B4	000000	000000	199
OOAE	98AF	BCL			0000B0	00FE86	0000B4	000000	000000	200
00B0	D00E	ORI			0000B2	00FE86	0000B4	000000	000000	201
00B2	3181	STH			0000B4	00FE86	0000B4	000000	000000	202
00B4	FE86	BB			0000B6	00FE86	0000B4	000000	000000	203
00B6	F6FF	TRM			0000B8	00FE86	0000B4	000000	000000	204
00B8	9802	BCL			0000BA	00FE86	0000B4	000000	000000	205
00 BA	8811	BZL			0000AC	00FE86	0000B4	000000	000000	206
OOAC	9180	ARI			0000AE	00FF06	0000B4	000000	000000	207
00AE	98AF	BCL			0000B0	00FF06	0000B4	000000	000000	208
00B0	DOOE	ORI			0000B2	00FF06	0000B4	000000	000000	209
00B2	3181	STH			0000B4	00FF06	0000B4	000000	000000	210
00B4	FF06	BB			0000B4	00FF06	0000B4	000000	000000	211
00B6	F6FF	TRM			0000B8	00FF06	0000B4	000000	000000	212
00B8	9802	BCL			0000B8	00FF06	0000B4	000000	000000	213
00BA	8811	BZL			0000BC	00FF06	0000B4	000000	000000	214
			~ 4				~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~~~~~		6 A 7

DATE MAR72 E.C. 309538

										., ,,
INST	MACH	INST	CZ P	REG0	REG1	REG3	REG5	ĸEG7		
ADDR	CODE	MNEM		(IAR)						
00AC	9180	ARI	00 1	0000AE	00FF86	0000B4	000000	000000		215
00AC	98AF	BCL		0000B0	00FF86	0000B4	000000	000000		216
00 BO	DOOE	ORI		0000B0	00FF86	0000B4	000000	000000		217
				0000B2	00FF86	0000B4	000000	000000		218
00B2	3181	STH				0000B4		000000		
00B4	FF86	BB		. 0000B6	00FF86		000000			219
00B6	F6Fr	TRM		0000B8	00FF86	0000B4		000000		220
00B8	9802	BCL		. 0000BA	00FF86	0000B4	000000	000000		221
00BA	8811	BZL		. 0000AC	00FF86	0000B4	000000	000000		222
00AC	9180	ARI		. 0000AE	0X0006	0000B4	000000	000000		223
OOAE	98AF	BCL		000002	0X0006	0000B4	000000	000000		224
0002	F6FF	TRM		. 000004	0X0006	0000B4	000000	000000		225
0004	98B8	BCL		. 000006	0X0006	0000B4	000000	000000		226
0006	80CE	LRI		800000	0XCE06	0000B4	000000	000000		227
8000	<b>810</b> B	LRI		. 00000A	0XCE0B	0000B4	000000	000000		228
000A	86FF	LRI		00000C	0XCE0B	0000B4	000000	00FF00		229
000C	87 F F	LRI		00000E	<b>CXCEOB</b>	0000B4	000000	00FFFF		230
000E	A8A2	В	10 1	. 0000B2	- OXCEOB	0000B4	000000	OOFFFF		231
00B2	3181	STH	10 1	0000B4	0XCE0B	0000B4	000000	OOFFFF		232
00B4	CE0B	BB	10 1	0000AC	0XCE0B	0000B4	000000	OOFFFF		233
00AC	9180	ARI	00 1	0000AE	0XCE8B	0.000B4	000000	OOFFFF		234
00AE	98AF	BCL	00 1	0000B0	0XCE8B	0000B4	000000	OOFFFF		235
00B0	D00E	ORI		0000B2	0XCE8B	0000B4	000000	OOFFFF		236
00B2	3181	STH	10 1		0XCE8B	0000E4	000000	OOFFFF	and annual and	237
00B4	CE8B	BB	10 1		0XCE8B	0000B4	000000	OOFFFF		238
00AC	9180	ARI		0000AE	0XCF0B	0000B4	000000	OOFFFF		239
00AE	98AF	BCL		0000B0	0XCF0B	0000B4	000000	OOFFFF		240
00B0	DOOE	ORI		0000B2	0XCF0B	0000B4	000000	OOFFFF		241
00B2	3181	STH		0000B4	0XCF0B	0000B4	000000	OOFFFF		242
00B4	CF0B	BB		0000AC	0XCF0B	0000B4	000000	OOFFFF		244
00AC	9180	ARI	00 1		0XCF8B	0000B4	000000	OOFFFF		245
OOAE	98AF	BCL	00 1		OXCF8B	0000B4	000000	OOFFFF		246
00B0	DOOE	ORI		0000B3	OXCF8B	0000B4	000000	OOFFFF		247
00BC	3181	STH		0000B4	OXCF8B	0000B4	000000	OOFFFF		248
00B2	CF8B	BB		0000AC	0XCF8B	0000B4	000000	OOFFFF		249
00B4	9180	ARI		0000AC	0XCF0B	0000B4	000000			250
								OOFFFF		
OOAE	98AF	BCL		. 0000B0	0XD00B	0000B4	000000	OOFFFF		251
00B0	DOOE	ORI		. 0000B2	0XDE0B	0000B4	000000	OOFFFF		252
00B2	3181	STH		0000B4	OXDEOB	0000B4	000000	OOFFFF		253
00B4	DE0B	BB		. 0000AC	0XDE0B	0000B4	000000	OOFFFF		254
00AC	9180	ARI		. 0000AE	0XDE8B	0000B4	000000	OOFFFF		255
00AE	98AF	BCL		. 0000B0	0XDE8B	0000B4	000000	OOFFFF		256
00B0	D00E	ORI		0000B2	0XDE8B	0000B4	000000	OOFFFF		257
00B2	3181	STH		. 0000B4	0XDE8B	0000B4	000000	OOFFFF		258
00B4	DE8B	BB		. 0000AC	0XDE8B	0000B4	000000	OOFFFF		259
00AC	9180	ARI		. 0000AE	0XDF0B	0000B4	000000	00FFFF		260
OOAE	98AF	BCL		0000B0	OXDF0B	0000B4	000000	00FFFF		261
00B0	D00E	ORI		. 0000B2	0XDF0B	0000B4	000000	OOFFFF		262
00B2	3181	STH	10 1	. 0000B4	0XDF0B	0000B4	000000	OOFFFF		263
00B4	DF0B	BB	10 1	0000AC	OXDF0B	0000B4	000000	00FFFF		264
00AC	9180	ARI	00 1	0000AE	0XDF8B	0000B4	000000	OOFFFF		265
00AE	98AF	BCL		. 0000B0	0XDF8B	0000B4	000000	OOFFFF		266
00B0	D00E	ORI		0000B2	0XDF8B	0000B4	000000	OOFFFF		268
00B2	3181	STH		0000B4	0XDF8B	0000B4	000000	OOFFFF		269
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LOGIC: CW306

								1711 170000
INST	MACH	INST	CZ P REGO	REG1	REG3	REG5	REG7	
ADDR			LL L (IAR)					
00B4	DF8B	BB	10 1 0000AC			000000	OOFFFF	270 271
00AC	9180	ARI	00 1 0000AE				OOFFFF	
OOAE	98AF	BCL	00 1 0000B0	0XE00B	0000B4	000000	OOFFFF	272
00B0	DOOE	ORI	10 1 0000B2	OXEEOB	0000B4	000000	OOFFFF	273 274
00B2	3181	STH	10 1 0000B4 10 1 0000AC	0XEE0B 0XEE0B	0000B4 0000B4	000000	111100	274
00B4 00AC	EE0B 9180	BB ARI	00 1 0000AC	OXEE8B	0000B4	000000	777100	275
00AC	9130 98AF	BCL	00 1 0000RE	OXEE8B	0000B4	000000	377700	274 275 276 277 278 279 280 281 282 283
00 BO	DOOE	ORI	10 1 0000B2	OXEE8B	0000B4	000000	OOFFFF	278
00B0	3181	STH	10 1 0000B2	0XEE8B	0000B4	000000	OOFFFF	279
00B4	EE8B	BB	10 1 0000AC	OXEE8B	0000B4	000000	OOFFFF	280
00AC	9180	ARI	00 1 0000AE	OXEFOB	0000B4	000000	OOFFFF	281
00AE	98AF	BCL	00 1 0000B0	0XEF0B	0000B4	000000	00FFFF	282
00B0	D00E	ORI	10 1 0000B2	0XEF0B	0000B4	000000	00FFFF	283
00B2	3181	STH	10 1 0000B4	0XEF0B	0000B4	000000	OUEEEE	204
00B4	<b>EFOB</b>	BB	10 1 0000AC	<b>CXEFOB</b>	0000B4	000000	OOFFFF	285
00AC	9180	ARI	00 1 0000AE	0XEF8B	0000B4	000000	OOFFFF	286
OOAE	<b>98AF</b>	BCL	00 1 0000B0	0XEF8B	0000B4	000000	00FFFF	287
<b>0</b> 0B0	D00E	ORI	10 1 G000B2	0XEF8B	0000B4	000000	OOFFFF	288
00B2	3181	STH	10 1 0000B4	0XEF8B	0000B4	000000	OOFFFF	289
00B4	EF8B	BB	10 1 0000AC	0XEF8B	0000B4	000000	OOFFFF	290
00AC	9180	ARI	00 1 0000AE	OXFOOB		000000	OOFFFF	285 286 287 288 289 290 291 292 293 294 295
OOAE	98AF	BCL	00 1 0000B0	0XF00B	0000B4	000000	OOFFFF	292
00B0	D00E	ORI	10 1 0000B2	0XFE0B	0000B4	000000	OOFFFF	293
00B2	3181	STH	10 1 0000B4	0XFE0B	0000B4	000000	00FFFF	294
00B4	FE0B	BB	10 1 0000AC	OXFEOB	0000B4	000000	00FFFF	295 296
00 AC	9180 98AF	ARI	00 1 0000AE 00 1 0000B0	0XFE8B 0XFE8B	0000B4 0000B4	000000	OOFFF	296
00AE 00B0	DOOE	BCL ORI	10 1 0000B0	OXFE8B	0000B4	000000	OOFFFF	200
00B0	3181	STH	10 1 0000B2	OXFE8B	0000B4	000000	777700	298 299 301 302 303 304 305
00B2	FE8B	BB	10 1 0000B4	OXFE8B	0000B4	000000	777700	301
00AC	9180	ARI	00 1 0000AE	0XFF0B	0000B4	000000	OOFFFF	302
OOAE	98AF	BCL	00 1 0000B0	0XFF0B	0000B4	000000	OOFFFF	303
00B0	D00E	ORI	10 1 0000B2	0XFF0B	0000B4	000000	OOFFFF	304
00B2	3181	STH	10 1 0000B4	0XFF0B	0000B4		OOFFFF	305
00B4	FFOB	BB	10 1 0000AC	OXFFOB	0000B4	000000	OOFFFF	306
00AC	9180	ARI	00 1 0000AE	0XFF8B	0000B4	000000	00FFFF	307
00AE	98AF	BCL	00 1 0000B0	0XFF8B	0000B4	000000	OOFFFF	308
<b>0</b> 0 B0	D00E	ORI	10 1 0000B2	0XFF8B	0000B4	000000	OOFFFF	309
00B2	3181	STH	10 1 0000B4	0XFF8B	0000B4	000000	OOFFFF	310
00B4	FF8B	BB	10 1 0000AC	0XFF8B	0000B4	000000	OOFFFF	311
00AC	9180	ARI	10 1 0000AE	0Y000B	0000B4	000000	0.0FFFF	312
00AE	98AF	BCL	10 1 000002	0Y000B	0000B4	000000	OOFFFF	313
0002	F6FF	TRM	10 1 000004	0Y000B	0000B4	000000	OOFFFF	314
0004	98B8	BCL	10 1 0000BE	0Y000B	0000B4	000000	OOFFFF	315
00BE	8174	LRI	10 1 0000C0	0Y0074	0000B4	000000	OOFFFF	316
0000	83C8	LRI	10 1 0000C2	0Y0074	0000C8	000000	OOFFFF	317
00C2	9110	ARI	00 1 0000C4	0Y0084	0000C8	000000	OOFFFF	318
00C4	F886	BB	00 1 000006	0Y0084	000008	000000	OOFFFF	319 320
00C6	3181 0084	STH OUT	00 1 0000C8 00 1 0000CA	0Y0084	000008	000000	00FFFF 00FFFF	320 321
00Ca	A80B	B	00 1 0000CA	0Y0084 0Y0084	0000C8 0000C8	000000	OOFFFF	322
00CA	9110	ARI	00 1 0000C2	0Y0094	000008	000000	OOFFFF	323
~~~~	, 110	126/4	30 1 000004	010074	000000		J V L L L	343

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										P/N 1/053/U	
INST	MACH CODE	Inst Mnem			REGO (IAR)	REG1		REG5		324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346	
00C4	F886	BB	00	1		0Y0094		000000	005555	324	
00C4	3181	STH			0000C8	0Y0094	0000C8	000000	OOFFFF	325	
00C8	0094	OUT			0000CA	0Y0094	0000C8	000000	002222	326	
00CA	A80B	B			0000C2	0Y0094	000008	000000	001111	327	
00C2	9110	ARI			0000C4	0Y00A4	0000C8	000000	OOFFFF	328	
00C4	F886	BB			0000C6	0Y00A4	0000C8	000000	OOFFFF	329	
00C6	3181	STH			0000C8	0Y00A4	000008	000000	OOFFFF	330	
00C8	00A4	OUT		_	0000CA	0Y00A4	0000C8	000000	OOFFFF	331	
00CA	- A80B	В			0000C2	0Y00A4	000008	000000	OOFFFF	332	
00C2	9110	ARI			0000C4	0Y00B4	0000C8	000000	OOFFFF	333	
00C4	P886	BB	00	1	000006	0Y00B4	0000C8	000000	OOFFFF	334	
00C6	3181	STH	00	1	0000C8	0Y00B4	0000C8	000000	OOFFFF	335	
00C8	00B4	OUT	00	1	0000CA	0Y00B4	0000C8	000000	OOFFFF	336	
00.CA	A80B	В .			0000C2	0Y00B4	0000C8	000000	0 offpp	337	
00C2	9110	ARI			0000C4	0Y00C4	0000C8	000000	OOFFFF	338	
00C4	F886	BB			0000C6	0Y00C4	000008	000000	OOFFFF	339	
00C6	3181	STH			0000C8	0Y00C4	000008	000000	OOFFFF	340	
00C8	00C4	OUT			0000CA	0Y00C4	0000C8	000000	0 offff	341	
00CA	A80B	В			0000C2	0Y00C4	0000C8	000000	OOFFFF	342	
00C2	9110	ARI			0000C4	OYOOD4	000008	000000	OOFFFF	343	
U0C4	F886	BB			000006	OYOOD4	000008	000000	OOFFFF	344	
00C6	3181	STH			0000C8	OYOOD4	000008	000000	OOFFFF	345	
00C8	00D4	OUT			0000CA	- 0Y00D4	0000C8	000000	OOFFFF	346	
00CA	A80B	В			0000C2	0Y00D4	0000C8	000000	OOFFFF	347	
00C2	9110	ARI			0000C4	0Y00E4	0000C8	000000	OOFFFF	346 347 348 349 350 351 352 353 354 355 357 358	
00C4	F886	BB			0000C6	OYOOE4	0000C8	000000	OOFFFF	349	
00C6	3181	STH			000008	0Y00E4	0000C8	000000	OOFFFF	350	
00C8	00E4	OUT			0000CA	0Y00E4	0000C8	000000	OOFFFF	351	
00CA	A80B	B			0000C2	0Y00E4	0000C8	000000	OUFFFF	352	
00C2	9110	ARI			0000C4	0Y00F4	000008	000000	OUFFFF	353 35#	
00C4	F886	BB			0000C6	OYOOF4	0000C8	000000	OOFFFF	354	
0006	3181	STH			0000C8	OYOOF4	0000C8	000000	OOFFFF	333 357	
00C8	00F4 A80B	OUT B			0000CA	0Y00F4 0Y00F4	000008	000000	OOFFFF	357	
00CA	9110				0000C2	0Y0104	000008	000000	OOFFFF	378	
00C2	F886	BB			0000C4	010104 010104	000008	000000	OOFFFF	359 360	
00C4	D884	BB			0000CE	0Y0104	0000C8	000000	00FFFF 00FFFF	360 361	
00CE	8010	LRI			00000E	0Y1004	0000C8	000000	OOFFFF	362	
00D0	A80D	В			0000E6	0Y1004	0000C8	000000	OOFFFF	363	
00C6	3131	STH			0000C8	0Y1004	0000C8	000000	OOFFFF	364	
00C8	1004	OUT			0000CA	0Y1004	0000C8	000000	OOFFFF	365	
00CA	A80B	В			0000C2	0Y1004	000008	000000	OOFFFF	366	
00C2	9110	ARI			0000C4	0Y1014	0000C8	000000	OOFFFF	367	
00C4	F886	BB			0000C6	0Y1014	000008	000000	OOFFFF	368	
00C6	3181	STH			000008	0Y1014	0000C8	000000	OOFFFF	369	
00C8	1014	OUT			0000CA	0Y1014	0000C8	000000	OOFFFF	370	
00CA	A80B	В			0000C2	0Y1014	000008	000000	OOFFFF	371	
00C2	9110	ARI			0000C4	0Y1024	000008	000000	OOFFFF	372	
00C4	F886	BB			0000C6	0Y1024	0000C8	000000	OOFFFF	373	
00C6	3181	STH			0000C8	0Y1024	0000C8	000000	OOFFFF	374	
00C8	1024	OUT			0000CA	0Y1024	000008	000000	OOFFFF	375	
00CA	A80B	В			0000C2	071024	000008	000000	OOFFFF	376	
00C2	9110	ARI			0000C4	0Y1034	0000C8	000000	OOFFFF	377	
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F.C. 309538

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								P/N	178537	' I	LOGIC	: CW3	308.							

											-	
INST	MACH	INST	CZ	P	REG0	REG1	REG3	REG5	REG7			
ADDR	CODE	MNEM	LL	L	(IAR)							
00C4	F886	BB			0000C6	0Y1034	0000C8	000000	OOFFFF			378
00C6	3181	STH			0000C8	0Y1034	0000C8	000000	00FFFF			379
00C8	1034	OUT			0000CA	0Y1034	0000C8	000000	OOFFFF			380
00CA	A80B	. <b>B</b>			0000C2	0Y1034	0000C8	000000	OOFFFF			381
00C2	9110	ARI			0000C4	0Y1044	0000C8	000000	00FFFF			382
00C4	F886	BB			0000C6	0Y1044	000008	000000	OOFFFF			383
<b>0</b> 0C6	3181	STH			0000C8	0Y1044	000008	000000	OOFFFF			384
00C8	1044	OUT			0000CA	0Y1047	000008	000000	OOFFFF			385
00CA	A80B	В		-	0000C2	0Y1044	000008	000000	OOFFFF			386
00C2	9110	ARI			0000C4	0Y1054	000008	000000	OOFFFF			387
00C4	F886	BB			0000C6	0Y1054	000008	000000	OOFFFF			388
00C6	3181	STH			0000C8	0Y1054	0000C8	000000	OOFFFF			200
<b>0</b> 0C8	1054	OUT			0000CA	0Y1054	0000C8	000000	OOFFFF			389
00CA	A80B	В			0000C2	0Y1054	0000008	000000	OOFFFF			390
00C2	9110	ARI			0000C4	0Y1064	000008	000000	OOFFFF			400
00C4	F886	BB			0000C6	0Y1064	000008	000000	OOFFFF			401
00C6	3181	STH			0000C8	0Y1064	000008	000000	OOFFFF			402 403
00C8	1064	OUT			0000CA	0¥1064	000008	000000	OOFFFF			403 404
00CA	A80B	B			0000C2 0000C4	0Y1064	0000C8	000000	00FFFF 00FFFF			405
00C2	9110	ARI			0000C4	0Y1074	000008	000000	OOFFFF			405 406
00C4	F886	BB			0000C8	0Y1074 0Y1074	000008	000000	OOFFFF			407
00C8	3181 1074	STH OUT			0000C8		0000028	000000	OOFFFF	****		408
00Ca	A80B	B			0000CA	011074 011074	0000C8	000000	OOFFFF			409
00CA	9110	ARI			0000C2	0Y1084	000008	000000	OOFFFF	•		410
00C2	F886	BB			0000C4	011084 011084	0000C8	000000	OOFFFF			411
0004	3181	STH			000008	011084 011084	0000C8	000000	OOFFFF			412
00C8	1084	OUT			0000C8	0Y1084	000008	000000	OOFFFF			413
00C8	A80B	B			0000CA	0Y1084	000008	000000	OOFFFF			414
00C2	9110	ARI			0000C4	0Y1094	000008	000000	OOFFFF			415
00C4	F886	BB			0000C4	0Y1094	000008	000000	OOFFFF			416
0006	3181	STH			0000C8	0Y1094	0000C8	000000	OOFFFF			417
00C8	1094	OUT			0000CA	0Y1094	000008	000000	OOFFFF			418
00CA	A80B	В			0000C2	0Y1094	000008	000000	OOFFFF			419
00C2	9110	ARI			0000C4	0Y10A4	000008	000000	OOFFFF			421
00C4	F886	BB			0000C6	0Y10A4	000008	000000	OOFFFF	•		422
00C6	3181	STH			000008	0Y10A4	000008	000000	OOFFFF			423
00C8	10A4	OUT			0000CA	0Y10A4	0000C8	000000	OOFFFF			424
00CA	A80B	В			0000C2	0Y10A4	000008	000000	OOFFFF			425
00C2	9110	ARI			0000C4	0Y10B4	000008	000000	OOFFFF			426
00C4	F886	BB			000006	0Y10B4	000008	000000	OOFFFF			427 /
00C6	3181	STH			0000C8	0Y10B4	0000C8	000000	OOFFFF			428 🕭
00C8	10B4	OUT	00	1	0000CA	0Y10B4	0000C8	000000	OOFFFF			429
00CA	A80B	В	00	1	0000C2	<b>0Y10B4</b>	0000C8	000000	OOFFFF			430
00C2	9110	ARI	00	1	0000C4	0Y10C4	0000C8	000000	OOFFFF			431
00C4	F886	BB	00	1	0000C6	0Y10C4	0000C8	000000	OOFFFF			432
00C6	3181	STH			0000C8	0Y10C4	0000C8	000000	OOFFFF			433
00C8	10C4	OUT			0000CA	0Y10C4	0000C8	000000	OOFFFF			434
00CA	A80B	В			0000C2	0Y10C4	0000C8	000000	OOFFFF			435
00C2	9110	ARI			0000C4	<b>0Y10D4</b>	0000C8	000000	00FFFF			436
00C4	F886	BB			0000C6	0Y10D4	000008	000000	OOFFFF			437
00C6	3181	STH			0000C8	0Y10D4	0000C8	000000	OOFFFF			438
00C8	10D4	OUT	00	1	0000CA	0Y10D4	0000C8	000000	OOFFFF			439

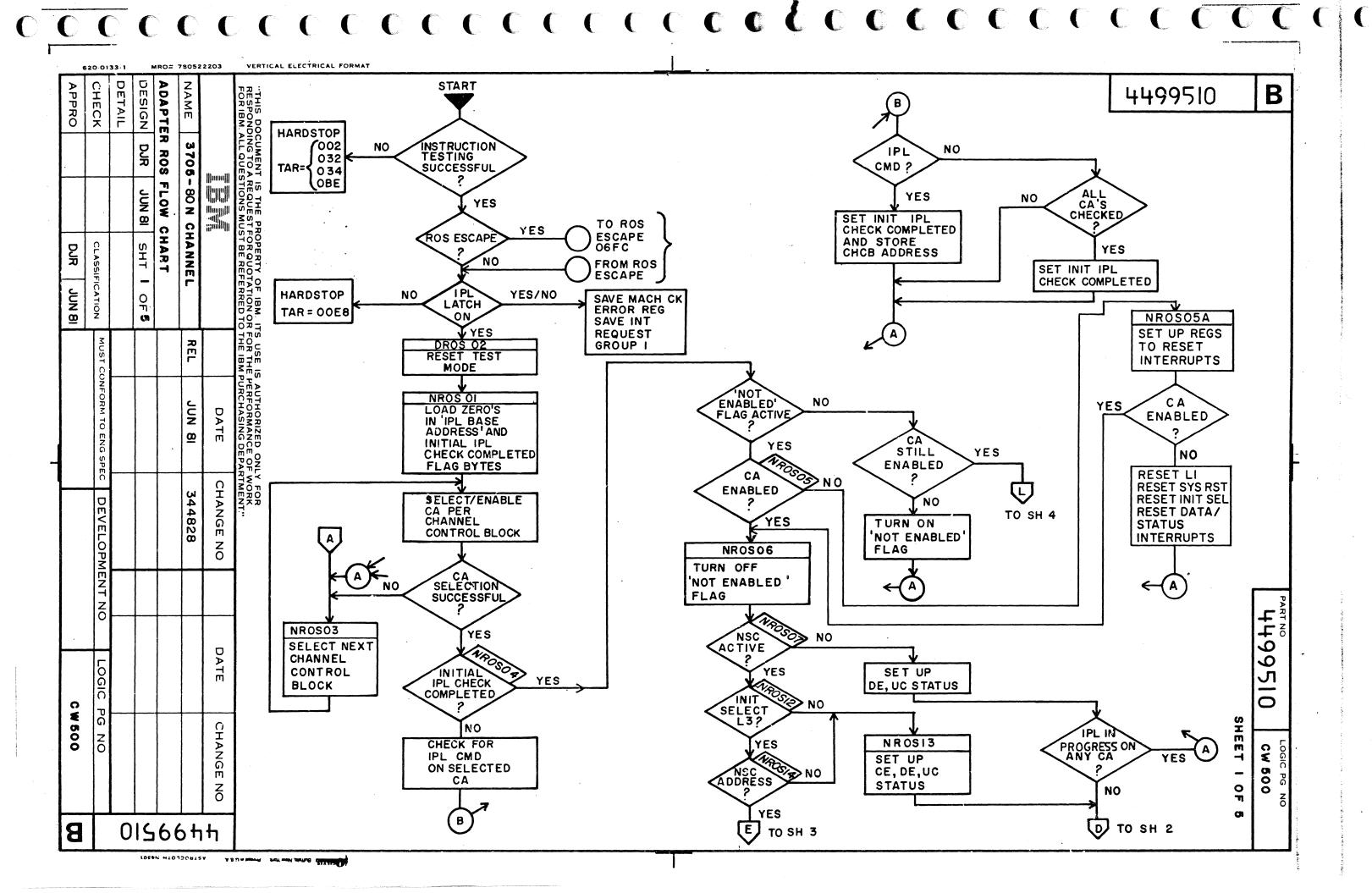
DATE MAR72

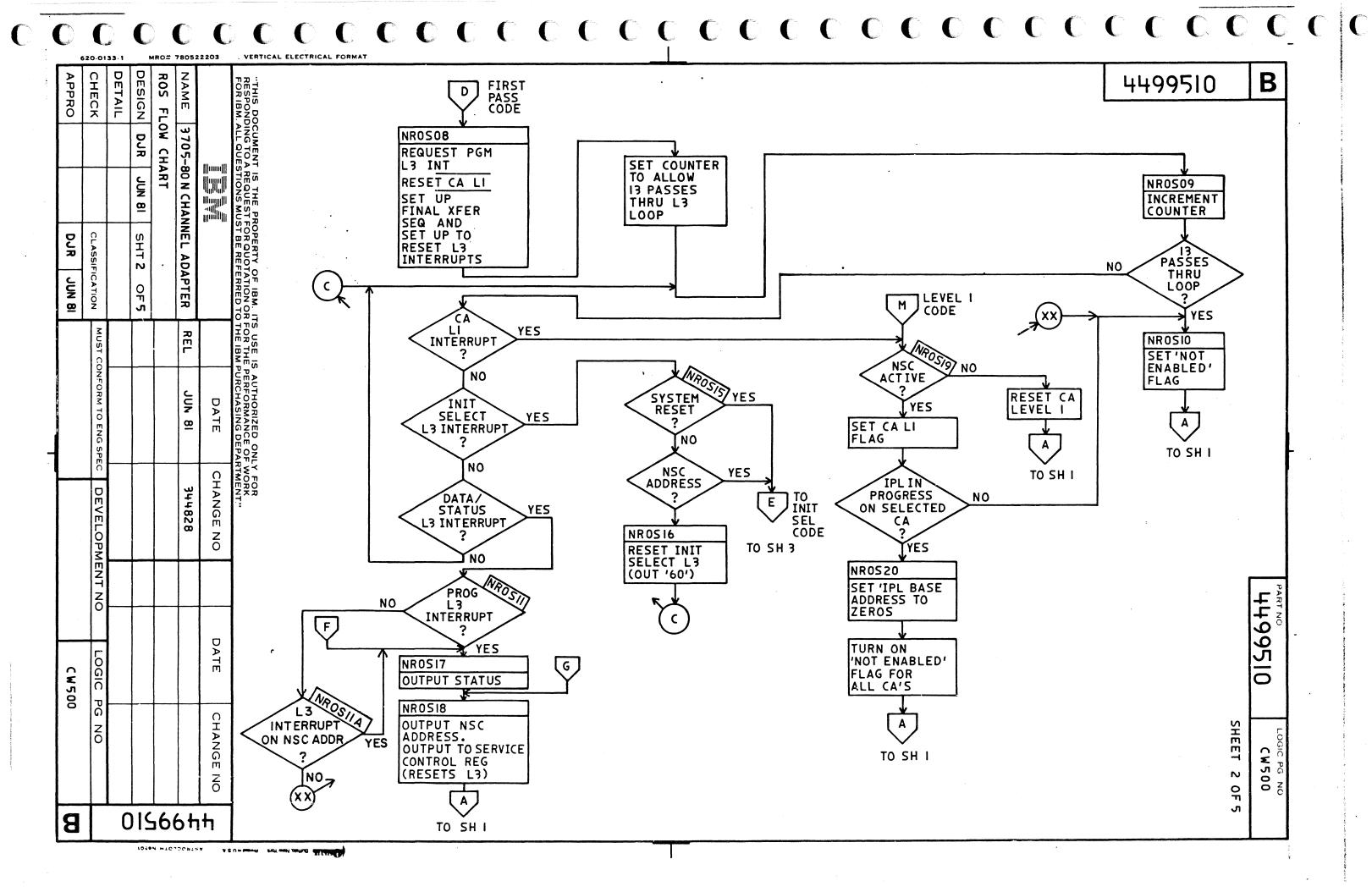
E.C. 309538

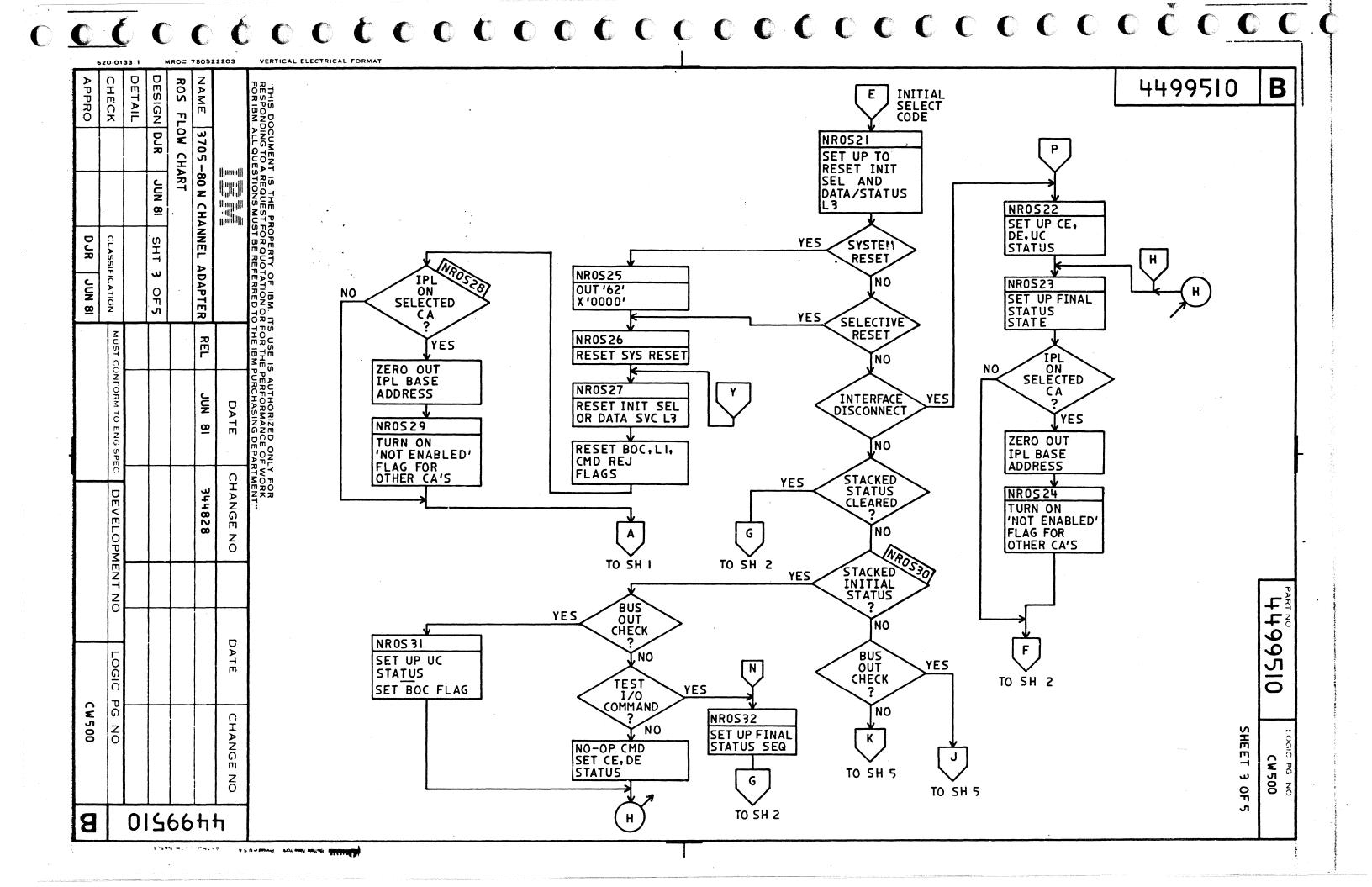
OCC	OCCCC	000000	00000		00000	00000
			P/N 1785372	LOGIC: CW309	$\sigma$	

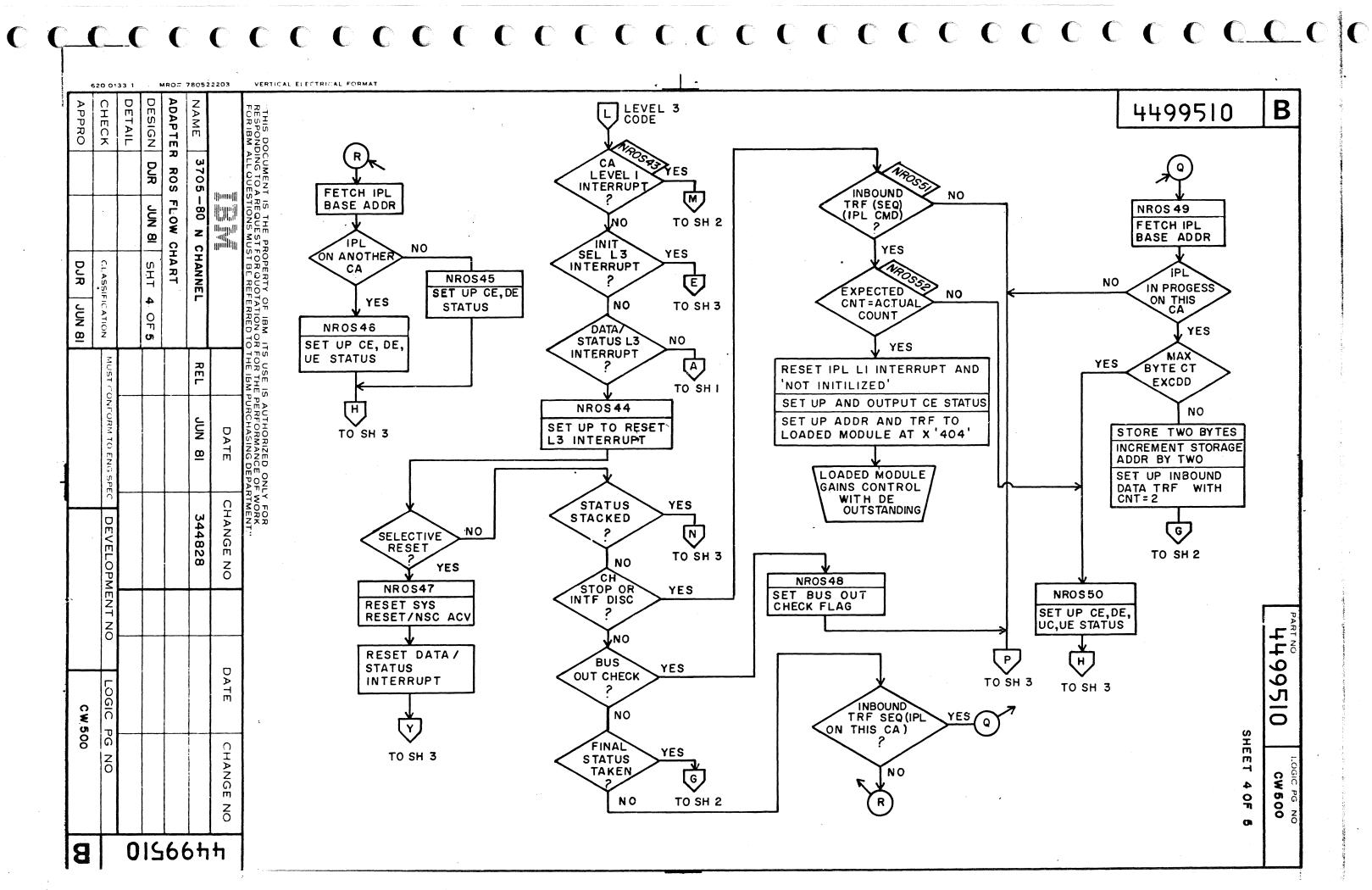
									P/N 178537
INST	MACH	INST	CZ P	REG0	REG1	REG3	REG5	REG7	
ADDR	CODE	MNEM	LL L	(IAR)					
00CA	A80B	В	00 1	0000C2	0Y10D4	0000C8	000000	OOFFFF	440
00C2	9110	ARI	00 1	0000C4	0Y10E4	000008	000000	00FFFF	441
00C4	F886	BB	00 1	000006	0Y10F4	000008	000000	OOFFFF	442
00C6	3181	STH	00 1		0Y10E4	000008	000000	OOFFFF	443
00C8	10E4	OUT	00 1		0Y10E4	000008	000000	OOFFFF	444
00CA	A80B	В	00 1		0Y10E4	000008	000000	OOFFFF	445
00C2	9110	ARI	00 1		0Y10F4	000008	000000	OOFFFF	446
00C4	F886	<b>B3</b>	00 1		0Y10F4	000008	000000	OOFFFF	447
00C6	3181	STH	00 1		0Y10F4	000008	000000	OGFFFF	448
00C8	10F4	OUT	00 1		0Y10F4	000008	000000	OOFFFF	449
00CA	A80B	В	00 1	000002	0Y10F4	000008	000000	OOFFFF	450
00C2	9110	ARI	00 1	-0000C4	0Y1104	000008	000000	OOFFFF	451
00C4	F886	BB	00 1		0Y1104	0000C8	000000	OOFFFF	452
00CC	D884	BB	00 1	0000D2	0Y1104	0000C8	000000	OOFFFF	453
00D2	719C	IN	00 1		000000	000008	000000	OOFFFF	454
00D4	F982	BB	00 1		000000	000008	000000	OOFFFF	455
						,		-	456
. •									457
END O	F INST	RUCTIO	N TES	T PORTIC	N OF ROS	-RETURN	TO ROS P	ROGRAM LISTING	458
					RANSFER				459

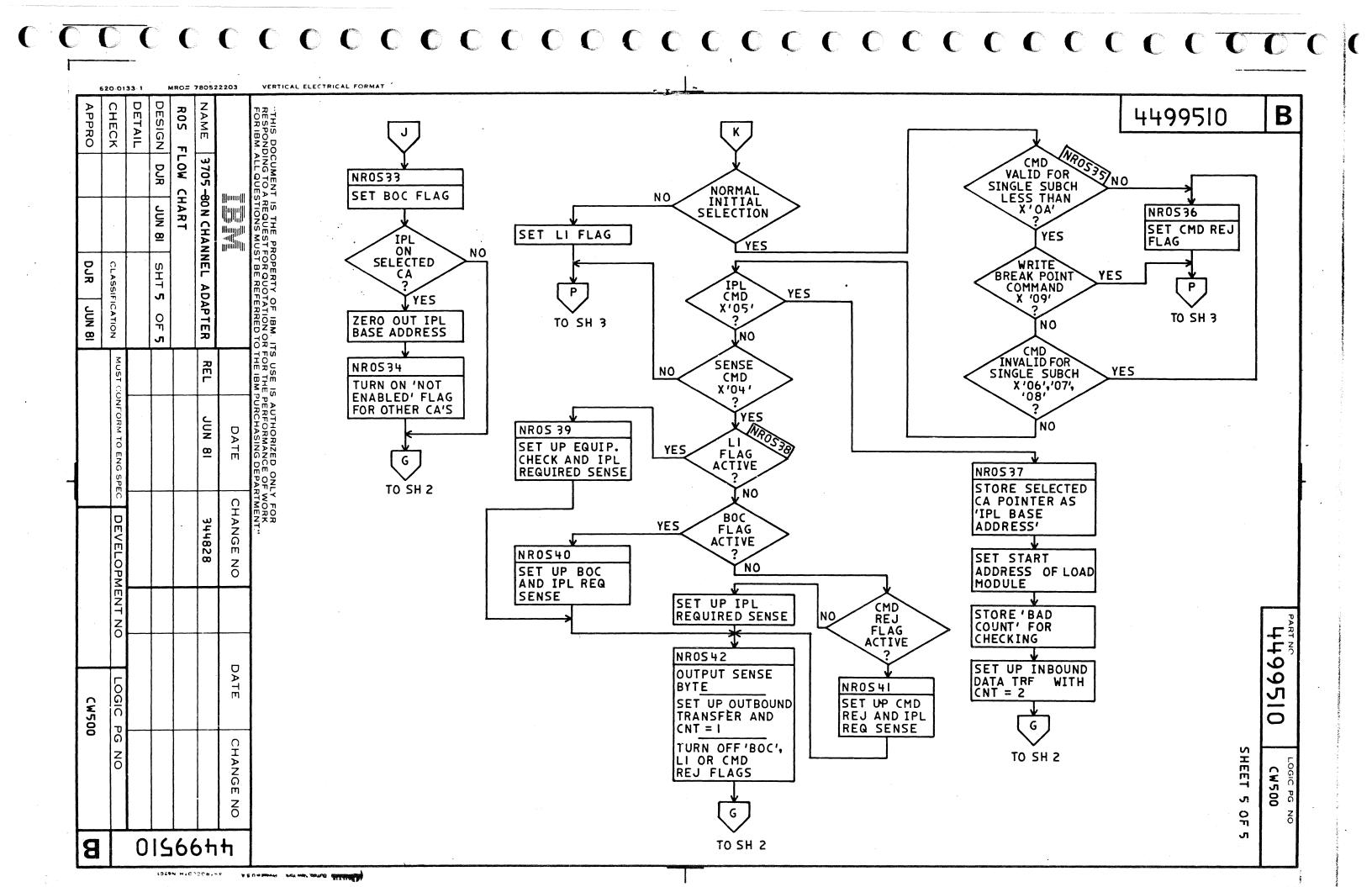
DATE MAR72 E.C. 309538











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					EC		316673
NROS	3705 TYPE 4 CHANNEL,N CH	ANNEL ROS	CODE		DA'		JANUARY, 1977
					P <b>/</b>	NT .	1749501
LOC	OBJ CODE RINIM R2N2 ADDI	R STMT	SOURCE	STATE	MENT		
000000		2	X3705ADA	START		GIC	CW501
000000		3	ZERO	EQU	*	•	1 00030 1 00040
000000			SROS	EQU	*		1 00040 1 00050
000000		5	RELOCF	EQU DC	X'00000' 128X'7004' OUTPUT STOP FILLERS		1 00060
	7004700470047004 7004700470047004	7		DC	128X'7004' OUTPUT STOP FILLERS		1 00070
	7004700470047004	8		DC	128X'7004' OUTPUT STOP FILLERS		1 00080
	7004700470047004	9		DC	128X'7004' OUTPUT STOP FILLERS		1 00090
000000		10		ORG	SROS+RELOCF		1 00100 1 00110
		11		*****	************	*	
		12			N CHANNEL ROS CODE	*	
		13 14			N CHANGEL RUS COOL	*	
		15		THE	FOLLOWING CODE WILL HANDLE THE IPL FUNCTION	FOR UP *	1 00150
		16		TO	OUR TYPE 4 CHANNEL ADAPTERS.	*	
		17				*	
		18			CHANNEL HANDLING SECTION LOADS THE INITIAL P	ROGRAM *	
		19		STA	RTING AT LOCATION Xº400°.	*	
		20		670	NACE LOCATIONS HISED BY BOS.	*	
		21		210	RAGE LOCATIONS USED BY ROS:	*	
		22 23		X ª O	00° - X°3FF° = ROS PROGRAM	*	_
		24		~ 0	,	*	
		25		X*7	OO' = IPL IN PROGRESS FLAG	*	
		26	*		EQUALS X'0000' IF IPL IS NOT IN PROGRES	<b>S.</b> *	
		27			EQUALS THE CHANNEL CONTROL BLOCK POINTE	R *	_
		28	and the second s		ADDRESS OF CHANNEL WHICH HAS IPL IN PROCESS	GRESS. *	
		29			X • 03E8 • = CA 1 IPL IN PROGRESS X • 03EE • = CA 2 IPL IN PROGRESS	*	
		30 31			X*03F4*= CA 3 IPL IN PROGRESS	*	
		32			X'03FA'= CA 4 IPL IN PROGRESS	*	1 00320
		33				*	
		34	*	X • 7	2'= REGISTER x'76' ENTERING ROS (HALF WORD S	TORAGE) *	
		35		X • 7	04 = REGISTER X*7D* ENTERING ROS (HALF WORD S	TORAGE) *	1 00350
		36		X • 7	06"= REGISTER X"7E" ENTERING ROS (HALF WORD S	TORAGE) *	
		37		V 1 7	08 = INITIAL IPL CHECK COMPLETED FLAG	*	
		38 39		Y - 1	EQUALS X*0000° IF INITIAL CHECK FOR IPL		
		40			HAS NOT BEEN COMPLETED FOR ALL CHANNEL		
		41				*	
		42	*	X•7	DC = ADDRESS COUNTER FOR INITIAL PROGRAM LOAD		
		43				*	• • • • • • • • • • • • • • • • • • • •
		44			30°= REGISTER O ENTERING ROS (FULL WORD STORA 34°= REGISTER 1 ENTERING ROS (FULL WORD STORA		
		45 46			34°= REGISTER 2 ENTERING ROS (FULL WORD STORA		
		47			CO = REGISTER 3 ENTERING ROS (FULL WORD STORA		
		48		X 17	90°= REGISTER 4 ENTERING ROS (FULL WORD STORA	GE). *	
		49		X • 7	94 = REGISTER 5 ENTERING ROS (FULL WORD STORA	GE). *	
		50			98 = REGISTER 6 ENTERING ROS (FULL WORD STORA		
		51		X • 7	OC = REGISTER 7 ENTERING ROS (FULL WORD STORA		
		52		****	***********	* *********	
		23	********		• • • • • • • • • • • • • • • • • • •	<del></del>	1 00230

54 ±	*******************	<b>*</b> 1	00560
57 *		* 1	
58 *		* 1	00580
59 *		* 1	00590
60 *	********************	* 1	00600
61 *		* 1	00610
62 *		* 1	00620
63 *		* 1	00630
64 *		* 1	00640
65 *		* 1	00650
66 *		* 1	00660
67 *			00670
68 *	BYTE 1 EQUALS X'00' FOR CA 1 SELECTED	* 1	
69 *		* 1	00690
70 *		* 1	
71 *	LOCATION Xº3FAº		00710
72 *	BYTE O EQUALS X'04' FOR CA 1 SELECTION	* 1	00720
73 *		* 1	00730
74 *		* 1	00740
75 *		* 1	
76 *	IOCATION Xº3FCº EQUALS Xº3EEº WHICH IS THE	* 1	
77 *			
78 *		* 1	
79 *	**********************		
* 08		* 1	
81 *	ON E CONTINGE DECOM	* 1	
82 *		* 1	
83 *		* 1	
84 *		* 1	
85 *	BIT 6= CA 2 BUS OUT CHECK FLAG		
86 *		* 1	
87 *		* 1	
88 *		* 1	
89 *		* 1	
90 *	LOCATION X'3FO'	* 1	
91 *		* 1	
92 *	CONTROL USED BY ROS PROGRAM.	* 1	
93 *		* 1	
94 *		* 1	
95 *		* 1	
96 *			
97 *		* 1	
98 *:	******************	* 1	00980

NROS 3705 TYPE 4 CHANNEL N CHANNEL ROS CODE

LOC OBJ CODE RINIM R2N2 ADDR STMT SOURCE STATEMENT

EC 316673

DATE JANUARY, 1977

P/N 1749503

LOGIC CW503

101	*******************	r* 1	01010
102		* 1	01020
103		* 1	01030
104		* 1	01040
105		* 1	01050
105	THE COURT OF THE COURT OF LEVEL	* 1	01060
107		* 1	01070
108	ATT TO A A CONTRACT CUECK FLAC	* 1	01080
109	The state of the s	* 1	01090
110		* 1	01160
111	·	* 1	01110
112		* 1	01120
113	TO THE STATE OF TH	* 1	01130
114		* 1	01140
115	THE RESERVE OF THE PROPERTY OF	* 1	01150
116		* 1	01160
117	THE THE TAX TO SEE TH	* 1	01170
118	TO CL 4 CONTROL DIOCK	* 1	01180
119	·	* 1	01190
120		** 1	01200
121		* 1	01210
122		* 1	01220
123		* 1	01230
124		* 1	01240
125		* 1	01250
126		* 1	01260
127		* 1	01270
128		* 1	01280
129		* 1	01290
130		* 1	01300
131		* 1	01310
132	THE THE PARTY OF T	* 1	01320
133		* 1	01330
134	THE RESERVE OF THE PROPERTY OF	* 1	01340
135		* 1	01350
136	* LOCATION X*3FE* EQUALS X*3E8* WHICH IS THE	* 1	01360
137	ACTUATED TO CALL CONTROL DEOCK	* 1	01370
138	*	* 1	01380
139		** 1	01390

										EC		316673
NROS	3705 TYPE	4 CHA	NNEL .N	I CHANN	FI ROS	s code				DATE		JANUARY, 1977
NKU3	3/03 1176	7 0112		·						P/N		1749504
LOC	OBJ CODE	RINIM	R2N2	ADDR	STMT	SOURCE	STATE	MENT		LOGIC		CW504
					141	*****	*****	******	********	***********	*** 1	G1410
					141 142		*****				* 1	01420
					143		BRA	N C H O N	BIT TEST (P	ART 2)	* 1	01430
					144						* 1	01440
					145	*	NOTE:	INSTRUCTION	EXECUTION STARTS AT ADD	RESS X * 0010 *	* 1	01450
					146	******	*****	******	*******	***********	*** [	01460
000000					147	SMAXST	EQU	*		O NOT DE AT 7500	1	01470 01480
000000	7004	0	70		148		OUT	O,STOP	HARDSTOP - SHOUL	D NUI BE AT ZEKU	r	01400
00000					150	MAXITO1	EQU	*			1	01500
000002	E4EE	7(0)			151	HAXITOI	TRM	R7(0),X'FF'		BRANCH ON BIT TES	ST 1	01510
C00004		7107		000BE	152		BCL	MAXITO7	BRANCH OUT OF TE	ST IF COMPLETE	1	01520
					357		101	R1(0),X'CE'	SET UP BRANCH ON	BIT INSTRUCTION	1	01540
000006		1(0)			154		LRI LRI	R1(1),X*0B*		BIT INSTRUCTION	1	01550
800008	8108	1(1)			155		FWI	KI(I) JA OD				
00000A	0455	7(0)			157		LRI	R7(0),X*FF*	SET ALL BITS ON	IN REG 7		01570
000000		7(1)			158		LRI	R7(1),X'FF'	SET ALL BITS ON	IN REG 7	1	01580
000000	0111	• • • •									•	01400
<b>0</b> 0000E	A8A2			00082	160		В	MAXITO6	BRANCH TO CONTIN	UE TESTING	1	01600
					162	******	*****	*********	*************	**********	*** 1	01620
					163						* I	
					164		INI	TIALIZA	TION		* 1	01640
					165						_	01650
					166	*	START	OF ROS CODE EX	ECUTION AT LOCATION X	0010.	* 1	01660
					167		PARIT	Y IS CORRECTED	IN GROUP ZERO REGISTER	S AND THESE	* 1	01670 01680
					168		REGIS	TERS ARE STORE	C IN LOCATIONS X'0780-0	795.	_	01690
					169				*******	*****	_	-
					170	******	*****	*******		***		01100
000010	0082	0	0		172		ST	RO,0(RO)	SAVE LEVEL 1 AND	2 IAR		01720
000010		Ö	01		173		OUT	RO, X'01'	SET GOOD PARITY	IN R1		01730
000012		ĭ	Ö		174		ST	R1,4(R0)	SAVE R1	•	1	01740
		•	0.0		174		OUT	RO, X 02 *	SET GOOD PARITY	IN R2	1	01760
C00016		0	02		176 177		ST	R2,8(R0)	SAVE R2		ĩ	
000018	028A	2	0		111		31	KZ YO TKO I	JATE NE			
00001A	0034	0	03		179		OUT	RO,X'03'	SET GOOD PARITY	IN R3	1	01790
C0001C		3	0		180		ST	R3,12(RC)	SAVE R3		1	01800
000010	0302	-										
00001E	0044	0	04		182		OUT	RO.X*04*	SET GOOD PARITY	IN R4		01820
000020		4	0		183		ST	R4,16(R0)	SAVE R4		I	01830
		^	05		105		OUT	RO,X*05*	SET GOOD PARITY	IN R5	1	01850
000022		0	05		185		OUT ST	R5,20(R0)	SAVE R5		i	
000024	0596	. 5	0		186		31	W74501W01	GRIC NA		-	- <del></del>
000026	0064	0	06		188		OUT	RO,Xº06º	SET GOOD PARITY	IN R6	1	01880
000028		6	Õ		189		ST	R6,24(R0)	SAVE R6		1	01890
		-								741 03	_	
00002A	0074	0	07		191		OUT	RO, X'07'	SET GOOD PARITY	IN KI	ì	01910
00002C		7	0		192		ST	R7,28(R0)	SAVE R7		1	01920

								EC	31667	3
NROS	3705 TYPE	4 CHANNEL,	N CHANNE	EL ROS	CODE			DATE	JANUAH	RY, 1977
			4000	CTNT	SOURCE	CTATE	MCNT	P/N	174950	05
FOC	OBJ CODE	RINIM RZNZ	AUUK	STMT	SOURCE	SIAIC	WENI	LOGIC	CW505	
								10010	011707	
				195 *	******	*****	******	*************************	1 01950 1 01960	
				196 *	t					
				197 *		NCH	AND IMME	DIATE INSTR TEST *		
				198 *						
				199 *		BRANC	H, BRANCH UN Z, BK	MICH ON CY EGAD IMPEDIATELY		
				200 *				TATES AND TEST TIMESTATE		
				201 *		INSTR	UCTIONS ARE TESTED	)• •		
				202 *					1 02030	
					******			**************************************	1 02040	
00002E	A804		00034	204		В	MAXITO2			
C00030				206 M	AXIE01	EQU	*		1 02060	
000030	7004	0 70		207		OUT	0,STOP	AN INSTRUCTION OR DATA FLOW HAS	1 02070 1 02080	
C00032				208		DC	X • 0000 •	TAILLO		
000001				210 4	SOTIXA	EQU	*		1 02100	
000034		1/01		211	MATIOZ	LRI	R1(0),X'00'	LOAD ZERO'S INTO REG 1 BYTE O	1 02110	
000034		1(0)	00030	212		BCL	MAXIEO1		1 02120	
000036		1/11	00030	213		LRI	R1(1),X*00*		1 02130	
CC0038		1(1)	00030	214		BCL	MAXIEO1	LRI, BCL OR DATA FLOW FAILURE	1 02140	
00003A	9800		00030	217		002		•		
000036	0100	1/11		216		ORI	R1(1),X'00'	OR ZERO'S WITH REG 1 BYTE 1	1 02160	
000030		1(1)		217		ARI	R1(1),X'CO'	ADD ZERO'S WITH REG 1 BYTE 1	1 02170	
C0003E		1(1)		218		TRM	R1(1),X'FF'	ARE ANY BITS ON?	1 02180	
000040		1(1)	00030	219		BCL	MAXIEO1	ORI, ARI, TRM, OR DATA FLOW FAILURE	1 02190	
000042	9010		00000	217		-				
000044	DIEE	1(1)		221		ORI	R1(1),X'FF'	OIL MEE DEVE DIT HERE	1 02210	
000044		1(1)		222		ARI	R1(1),X'FF'		1 02220	
000048		1(1)		223		TRM	R1(1),X'01'	TEST FOR LOW ORDER BIT OFF	1 02230	
000048		111/	00030	224		BCL	MAXIEO1	ORI, ARI, TRM, OR DATA FLOW FAILURE	1 02240	
UUUUTA	7010		00030	•••						
00004C	E001	1(0)		226		TRM	R1(0),X*01*	O O O O O O O O O O O O O O O O O O O	1 02260	
00004E		210,	00030	227		BZL	MAXIEO1	ORI, ARI, TRM, BZL OR DATA FLOW	1 02270	
000042	0021			228 *	•			FAILURE	1 02280	
000000	0055	1/01		230		ORI	R1(0),X*FF*	OR ALL BITS ON WITH REG 1 BYTE O	1 02300	
000050		1(0)		231		ARI	R1(0),X'FF'		1 02310	
000052		1(0)	00058	232		BCL	MAXITO4		1 02320	
000054	9602		00056	E. 3 L		DUL				
000056				234 M	EOTIXA	EQU	*	THE TO A CONCTANT POR TECTING AC A	1 02340	
C00056				235		DC	X'FFFF'	THIS IS A CONSTANT FOR TESTING, AS A		
		· ·		236 *				INSTRUCTION IT IS A BRANCH BACK PAST		
				237 *	•			ZERO.	1 02370	
000058				239 M	AXITO4	EQU	*		1 02390	
000058		1(0)		240		LRI	R1(0),X'00'		1 02400	
00005A		1(0)		241		ORI	R1(0),X'00'		1 02410	
00005C		1(0)		242		ARI	R1(0),X*CO*	ADD ZERO'S WITH REG 1 BYTE 0	1 02420	
00005E		1(0)		243		TRM	R1(0),X'FF'	ARE ANY BITS ON?	1 02430	
000060		- · <del>-</del> ·	00030	244		BCL	MAXIEO1	ORI, ARI, TRM OR DATA FLOW FAILURE	1 02440	

NROS	3705 TYPE	4 CHA	NNFL.	N CHANN	NEL RO	s cn	nne.																			1	ЕC								316673	
						<b>.</b>	,,,,																			I	rac	Έ							JANUARY,	1977
FOC	OBJ CODE	R1N1M	R2N2	ADDR	STMT	S	OUR	CE	STAT	EME	NT															F	<b>P/</b> N	Ī							1749506	
																										I	.OG	IC	!						CW506	
					247	***	· ·***	***	****	***	***	***	***1	***	**	***1	***	***	**1	***	**	**	**	**	**	**:	**:	**:	**1	**	***	***	*	1	02470	
					248	*																											*	1	02480	
					249	*	T	E S	TI	N	G	0	F	G	R	O U	P	0	1	R	Ε	G	Ī	S	T	E	R S	S	A	N	D		*	1	02490	
					250																												*	-	02500	
					251		E	x C	LU	S	I١	/ E	C	) R	•	IN	P	U T		2	0	U '	T	Ρ	U	T		1 !	<b>V</b> S	T	R		*		02510	
					252																												*	_	02520	
					253	***	***	***	****	***	***	***	***1	***	**	***	***	***	***	***	***	<b>*</b> *:	**	<b>* *</b>	**	<b>**</b> :	¥ ¥ 1	**:	***	***	***	* * *	•	1	02530	
000062	77C8	7	7		255				XR	R	7,F	<b>?</b> 7					CI	LEA	R F	REG	7										•			1	02550	
000000					257				USIN	G 5	MA	CT.	. R 7																					1	02570	
C00064	7157	1	7	00056	258				LH				TO3	1			LO	DAD	AL	L	81	TS	0	N	ΙN	τo	RE	EG	1						02580	
		•	·		259				DROP		7									-		•		•					-						02590	
000066	051C	5	01		261				IN	R	5,)	(*0)					11	NPU	TR	REC	. 1	T	0	RE	G	5								ì	02610	
000068	0134	1	03		262				OUT	R	1,>	(*03	3 •				Ol	JTP	UT	RE	G	1	TO	R	EG	3								1	02620	
C0006A	53C8	3	5		264				XR	R	3, F	15					AF	RE I	REG	; 3	A	ND	R	E G	5	E	QUA	AL 7	?					1	02640	
00006C	983F			00030	265			i	BCL	M	AXI	E01	l																						02650	
					266	*											I	NPU	Τ,	OR	. 01	UTF	PU	T	IN	ST	RUC	T	ION	F	AIL	UR	E	1	02660	
00006E		3	7		268				KR		3,R							RE																	02680	
000070	9843			00030	269			1	BCL	M	AXI	E01	L					CL									-								02690	
					270	*											11	IPU	Τ,	OR	01	UTF	PU.	Τ .	IN:	STF	RUC	; T ]	ION	F	AIL	.UR	E	1	02700	
000072	1708	7	1		272				KR	R	7,R	1					E	CLI	USI	VE	01	R A	<b>AL</b>	L	BI.	TS	01	i	NT	0	REG	7		1	02720	
000074	0354	3	05		274			(	DUT	R	3,X	• 05	; •				OL	JTPI	UT	ZE	RO	٠,5	T	) i	RE(	3 5	5							1	02740	
000076		1	03		275				EN	R	1,X	• 03	3 *				IN	IPU	T Z	ER	0 • 9	S 1	0	RI	EG	1									02750	
000078	1508	5	1		277			,	(R	R	5 <b>,</b> R	1					AR	RE I	REG	5	Αſ	D	R	EG	1	EÇ	QUA	L?	•					1	02770	
00007A	984D			00030	278			1	BCL	M	AX I	E01					EX	CLI	USI	VE	OF	R F	REC	319	STE	ĒR,	· I	NP	UT	, (	DR			1	02780	
					279	*											οι	ITP	UT	IN	STE	RUC	T	101	V F	FAI	LU	IRE	•					1	02790	

										-															E	C					316673	
NROS	3705 TYPE	4 CHAN	NEL,	N CHANN	EL ROS	CODE																			D	ΑT	E				JANUARY,	1977
LOC	OBJ CODE	R1N1M	R2N2	ADDR	STMT	SOUR	CE ST	ATE	1ENT	•															P	/N	•				1749507	
																									L	OG:	IC				CW507	
÷					282	*****	****	***	***	***	***	**	***	***	**	***	**	**	**	**	**	**	**	***	**	**	****	****	***	<b>**</b> 1	02820	
					283	*																								* 1	02830	
					284		EST	I	V G	C	F		s t	. 0	R	Ε	Н	I A	L	F	W	0	R	D	•					* 1	02840	
					285	*																								* 1	02850	
					286		DAD	1	A F	LF	. M	0 1	R D	,	(	E X	C	L	U	S	I	٧	Ε		0	R ,	9			* 1	0286G	
					287																									* 1	02870	
					288		N D	S	0	R E	:	I 1	N S	T	RI	U C	. T	· I	0	N	S									* 1	02880	
					289																									* 1	02890	
					290		****	***	***	***	***	**	***	***	**	***	**	**	**	**	**	**	**	***	**	**	****	***	***	** 1	02900	
										•	v • •					cc				<b>.</b> .	n E	٠.	<b>-</b>	10	TC	C T 1	ING			1	02920	
00007C		1(0)	_		292		LR		R1(			,,,															BIT	C ON	ł	1	02930	
00007E		7	1		293		ST		R7,																		Y ST			1	02940	
000080		3	1		294		LH		R3,		(1)																	JKLD		1	02950	
000082		3	7		295		XR		R3,								_	_									AL?	une n	ı	1	02960	
000084	9857			00030	296	_	ВС	L	MAX	IEC	L									rı.	NU	ΚU	U		UA	ו ע	HALF	HUND		i	02970	
					297	*										FA	IL	UK	. C											•	02310	
000086	1585	5	1		299		ST	Н	R5,	4 ( R	11)					ST	OR	E	НΑ	LF	WO	RD	W	TH	A	LL	BIT	S OF	F	1	02990	
000088		3	i		300		LH		R3,																		Y ST			1	03000	
A80000		3	5		301		XR		R3,		• • •																AL?			1	03010	
380000			,	00030	302		BC		MAX		1																HALF	HORD	r	1	03020	
000080	7071			00030	303	*		_	• . • . • . •		-												ILU							1	03030	
					303														-													
00008E	1786	7	1		305		ST		R7,	4 ( R	1)					ST	OR	E	AL	L	ВІ	TS	01	1 F	OR	TH	HE SI	ECON	D	1	03050	
					306	*													RD											1	03060	
000090	1305	3	1		307		LH		R3s	4 ( F	11)														01	- 1	THE I	FULL	WOR	D 1	03070	
					308	*																	RE	)						1	C3080	
000092	53C8	3	5		309		XR		R3,	R5									EY											1	03090	
000094				00030	310		ВС	L	MAX	IEC	1					ST	OR	E	IN	ST	RU	CT	101	l F	AII	_UF	RE			1	03100	
		_			212				0.5										<b>C</b> (	ΩNI	n	LI A	E	ına	חו	) E	THE	EIII	LWO	RD 1	03120	
000096	1507	5	1		312		LH		R5,	0 ( H	11														U	JF	Inc	FUL	LWUI			
		_	_		313	*			2							PR									501		-			_	03130	
000098		5	7		314		XR		R5,																EQU					1	03140	
00009A	986D			00030	315		ВС	L	MAX	150	1					21	UK	t	I M	<b>3</b> I	ΚŪ	CI	LU	4 F	ΑII	_ UF	<b>(Ε</b>			r	03150	
000000	1504	5	1		317		ST		R5,	410	1)					ST	.UB	F	ΔΙ	L	BI	TS	OF	F	ΙN	Ti	HE SI	ECON	D	1	03170	
00009C	1200	5	T		318	*	31		N.J.	710	/					HA							٠.	•	- ' '	• •	,		-	1	03180	
000005	0707	7	•		319	•	LH	1	R7,	610	101										D	НΔ	F	INR	ם ו	)F	THE	FIII	I MUI	$RD$ $\overline{1}$	03190	
C0009E	0101	7	0		320	*	Ln		~ I <b>y</b>	517	,												RE		- (	٠.			- 40	1	03200	
000040	7500	5	7		321	•	XR		R5,	<b>R7</b>															F	2112	AL?			i	03210	
0000A0		5	•	00030	322		BC		MAX		1														AII						03220	
0000A2	7013			300,50	J			_			-					- •	,	_							-		-			•		

				•												EC				316673	
NROS	3705 TYPE	4 CHAN	NNEL .	N CHANN	EL ROS	CODE															2075
															]	DATE				JANUARY,	1977
LOC	OBJ CODE	RINIM	R2N2	ACDR	STMT	SOURC	E STA	TEMENT							1	P/N				1749508	
															:	LOGIC	;			CW508	
					325	******	*****	*******	*****	****	*****	****	****	*****	****	****	*****	****	1	03250	
					326													*	1	03260	
					327		AN	CH ON	ВІ	T	TES	T	( P A	R T	1	)		*	1	03270	
					328													*	_	03280	
					329			S TEST IS										*		03290	
					330	*	INS	TRUCTION I	EACH I	IPE II	HRUUGH	1. B	KANCH	UN B	II II	) 162	IEU	*		03300 03310	
					331 332			TO BRANCI		611	15 UFF	ANU	INCN	ום טו	KANCI	n Mnc	N			03320	
	•				333		1110	DI 1 13 U										*		03330	
							****	******	*****	****	*****	***	****	****	****	****	*****				
0000A4	80CE	1(0)			336		LRI	R1(0),	K'CE'		SET	UP	BRANCI	H ON E	BIT 1	INSTR	UCTION	1	1	03360	
C000A6	8106	1(1)			337		LRI	R1(1),	X • 06 •		SE T	UP	BRANCI	H ON E	BIT I	INSTR	UCTION	İ	1	03370	
								******								****	*****	****		03390	
						****		: NEXT										****		03400	
						*****		******		****										03410	
8A0000	8384	3(1)			342	_	LRI	R3(1),)	(1841					SS FUE	R BRA	ANCH	ON BIT			03420	
COOO 4 4	A 0.04			00003	343 344	*	В	MAXITO	<u>.</u>			TRUC		TAL TE	- C T					03430 03440	
COOOAA	A606			00082	344		Ð	MAXIIU			DKA	INCH	TO BE	) IN 1 E	E 3 I				ī	03440	
<b>0000AC</b>						MAXIT05	EQU	*												03460	
0000AC		1(1)			347		ARI	R1(1),					INSTRU							03470	
0000AE	98AF			00002	348		BCL	MAXITOI	Ĺ							GON	E THRO				
000000	חחחר	1/01			349		00.7	01/01					ITERA				000464			03490	
COC080	DUGE	1(0)			350 351		ORI	R1(0),	(,05,								ROPAGA Resent			03500 03510	
•					352						REG		UVER	HKEE	0113	REF	KESENI			03520	
					JJE	•					REU	•							•	03720	
00C0B2					354	MAXITO6	EQU	*											1	03540	
000082	3181	1	3		355		STH	R1,0(R3	3)		STO	RE B	RANCH	ON BI	IT IN	ISTRU	CTION			03550	
0000B4		7(0,0	)	000BC	356		BB	R7(0,0)		C2			INSTR					**		03560	
C000B6	F6FF	7(0)			357		TRM	R7(0).X	( * F F *		IF	BRAN	CH DIE	NOT	OCCU	IR SH	OULD I	T		03570	
					358	*					HAV	E?							1	03580	
0000B8	9802			000BC	359		BCL	MAXIE02	?		YES	, IT	SHOUL	D HAV	/E OC	CURE	D BUT	DID		03590	
					360	*					NOT								1	03600	
COOOBA	8811			OOOAC	362		BZL	MAXITO5	<b>;</b>					UP N	EXT	BRAN	CH ON	BIT		03620	
					363	* .					INS	TRUC	TION						1	03630	
0000BC	7004	0	70		365	MAXIE02	OUT	O.STOP											1	03650	

					•						
<b>.</b>	2705 7405		AL CHAR	D.O.	c con-			EC		316673	
NROS	3105 ITPE	E 4 CHANNEL	. IN CHAN	NEL KU	2 CODE			DATE		JANUARY, 19	977
FOC	OBJ CODE	RINIM R2N	2 ADDR	STMT	SOURCE	STATE	EMENT	P/N		1749509	
								LOGIC		CW509	
				340	******					03490	
				369		*****	• • • • • • • • • • • • • • • • • • • •	**********	_	03680 03690	
				370		NER	AL REGIST				
				371		•			* ī	03710	
				372	*	AN CI	UTPUT TO EACH OF TH		* 1	03720	
				373					* 1		
				374		POWER	RING ON.		* 1		
				375				**********		03750	
				316	******	*****	•		<b>+</b> 1	03760	
0000BE					MAXITO7		*			03780	
<b>0</b> 000BE	8174	1(1)		379		LRI	R1(1),X*74*	LOAD OUTPUT INSTRUCTION	1	03790	
								***************	_	03810	
					****			IS ADDRESS SENSITIVE ****	-	03820	
000000	0360	2/11	-					**************************************	_	03830 03840	
000000	0360	3(1)		384		LRI	R3(1),X'C8'	LOAD ADDRESS OF OUTPUT INSTRUCTION	1	03640	
000002					80TIXAM				1	03860	
000002		1(1)		387		ARI		UPDATE INSTRUCTION	1	03870	
0000C4	F886	1(0,7)	00000	388		88	R1(0,7),MAXIT10	BRANCH WHEN GROUP 1 IS CORRECTED	1	03880	
000006				390	MAXITO9	EQU	*		1	03900	
000006	3181	1 3		391		STH	R1,0(R3)	STORE OUTPUT INSTRUCTION	1	03910	
830000		0 08		392		OUT		*** THIS INSTRUCTION CHANGES ***	* 1	03920	
COOOCA	4808		000C2	393		В	8CTIXAM		1		
				394	*			OUTPUT INSTRUCTION	1	03940	
0000CC				396	MAXIT10	EQU	*		1	03960	
COOOCC	D884	1(0,3)	000D2	397		88	R1(0,3),ESCCHK	BRANCH TO IPL HANDLEP WHEN GROUP 2	1	03970	
				398	*			AND 3 ARE PARITY CORRECTED	1	03980	
0000CE	8010	1(0)		400		LRI	R1(0),X*10*	SET UP TO CORRECT PARITY OF GROUP 2	1	04000	
				401	*	_		AND GROUP 3 REGISTERS	1		
000000	A80D		00006	402		8	MAXITO9	BRANCH TO START PARITY CORRECTION	1	04020	
		•		105							
				405		****	******	:*************************************	_		
				407		S F	SCAPE HAND		* 1		
				408			JUNIE II MINE		* 1 * 1	04070 04080	
						*****	**********	************	× 1	04090	
000002				411	ESCCHK	EQU	•		1	04110	
0000D2	719C	1 79		412		IN .	R1,X*79*	INPUT UTILITY REG FOR ESCAPE BIT		04120	
0000D4	F982	1(1,7)	000D8	413		BB	R1(1,7),ROSO1	BRANCH BIT IS ON FOR NO ESCAPE	1		
0000D6	AE24		006FC	415		В	ESCAPE	BRANCH TO ESCAPE TO CORRECTED CODE	1	04150	
0006FC				416	ESCAPE	EQU	SROS+X*6FC*		i		

							-							
												EC		316673
NROS	3705 TYPE	4 CHA	NNEL .	N CHANN	IEL RO	S CODE				·		DATE		JANUARY, 1977
														-
LOC	OBJ CODE	R1N1M	R2N2	ADDR	STMT	SOURC	E STAT	EMENT				P/N		1749510
												LOGIC		CW510
						*****	*****	******	*******	*******	******	******	* 1	04190
					420								* 1	04200
					421		ORE	OFIN	TERR	UPTR	EQUES	T	* 1	04210
					422								* 1	04220
					423		0 U P	IREG	ISTE	RS AN	DIPL	CHECK	* 1 * 1	04230 04240
					424 425		THE	INTERRUPT RE	OUEST COL	1110 1 DEGIS	TEDC / 1 7 1 7	6.70.7E!)	* 1	04250
					426			STORED AT LO					* 1	04260
					427							LEVEL 1 REQUEST.	_	04270
					428			L I MEGGEGI				TEVEL 1 MEGGEOTT	* 1	04280
							*****	********	*******	******	******	***********	* 1	04290
80000					431	ROS01	EQU	*				•	1	04310
0000D8		1	7D		432		IN	R1, MACHK		GET MACHI	NE CHECK	ERROR REGISTER	1	04320
0000DA	0185	1	0		433		STH	R1,4(RO)		SAVE MACH	INE CHECK	ERROR REGISTER	1	04330
0000DC	716C	1	76		435		IN	R1,X'76'		GET INTER	RUPT REQU	EST GROUP 1 FOR	1	04350
					436					ADAPTERS			1	04360
COOODE	0183	ì	0		437		STH	R1,2(R0)			RRUPT REQI	UEST GROUP 1 FOR	1	04370
					438	*				ADAPTERS			1	04380
0000E0	71EC	1	7E		440		IN	R1, INTGP1		GET INTER	RUPT REQUI	EST GROUP 1	1	04400
0000E2	0187	1	0		441		STH	R1,6(R0)		SAVE INTER	RRUPT REQI	UEST GROUP 1	1	04410
C000E4	F902	1(1,6	5)	000E8	443		88	R1(1,6),DR	0802	IS THIS A	IPL LEVE	L 1 REQUEST?	1	04430
					444	*							1	04440
0000E6	7004	0	70		445		OUT	O,STOP		HARDSTOP (	DUE TO ANY	Y OTHER LEVEL 1	1	04450
					448	*****	*****	******	******	*******	******	*******	* 1	04480
					449								* 1	04490
					450	* R E	SET	OF CC	и сн	ECKS	AND T	EST MODE	* 1	04500
					451	*						· · · · · · · · · · · · · · · · · · ·	* 1	04510
							*****	********	******	******	******	**********	* 1	04520
0000E8						DROSO2	EQU	*					1	04530
0000E8		1	1		454		XR	R1,R1		CLEAR REG			1	04540
0000EA	0181	. 1	0		455		STH	R1,0(R0)		CLEAR THE	FLAG AREA	X X 700'	1	04550
0000EC		1(0)			457		LRI	R1(0),X'40	1	SET RESET		CHECKS	1	04570
0000EE	7174	1	77		458		CUT	R1,X'77'		CLEAR CCU	CHECKS		1	04580
000055	1160	•	•		459	*	V.C	01 01		CI EAD DEC	•		1	04590
0000F0		1	1		460		XR	R1,R1		CLEAR REG	1		1	04600
0000F2 C000F4		1(1)	79		461 462		LRI	R1(1),X'10 P1,X'79'	•	SET UP TO RESET 1	EST MODE		1	04610
5000F4	1177		17		702		001	UTAV. 12.		וט מכטבו ו	LSI MUUE		I	04620

	•						•			EC		316673	
NROS	3705 TYPE	4 CHAI	NNEL	N CHANN	IEL RO	S CODE				DATE		JANUARY,	1977
LOC	OBJ CODE	R1N1M	R2N2	ADDR	STMT	SOURCE	E STATE	EMENT		P/N		1749511	
									·	LOGIC		CW511	
							*****	*******	***********	***********		04650	
					466						* 1	04660	
					467		IE211NO	G OF REG 4 AND I	REG 6		* 1 * 1	04670 04680	
					468 469	******	*****	*****	*******	********	_	04690	
					40,							04030	
0000F6	7708	7	7		471		XR	R7,R7	CLEAR REG 7		ı	04710	
000000					472		USINO	S SMAXST,R7			1	04720	
00CCF8	7457	4	7	00056	473		LH	R4, MAXITO3	LOAD ALL BITS	ON INTO REG 4	1	04730	
0000FA	7657	6	7	00056	474		LH	R6,MAXITO3	LOAD ALL BITS	ON INTO REG 6	1	C4740	
					475		DROP	R7			1	04750	
0000FC		4	6		476		XR	R4,R6	ARE REG 4 AND		1	04760	
0000FE				00030	477		BCL	MAXIE01		S FAILED TO SET	1	04770	
000100		6	6		478		XR	R6,R6	CLEAR REG 6		1	04780	
000102		4	6		479		XR	R4,R6	ARE REG 4 AND		1		
C001C4	9807			00030	480		BCL	MAXIE01	REG 4 UR REG	5 FAILED TO CLEAR	1	04800	
					482	******	*****	*******	*******	*******	*** 1	04820	
					483	*					* 1	04830	
					484	* THIS	IS TH	E START OF THE	CHANNEL CODE. THIS	SECTION ZERGS OUT	* 1	04840	
					485	* THE	'IPL 8	BASE ADDRESS! LO	CATED AT X . 700 AND	THE 'INITIAL IPL	* 1	04850	
					486				E LOCATED AT X'708'.		* 1	04860	
					487				BLOCK FOR THE FIRST	CA IS FETCHED	* 1	04870	
					488		1 X103E	81.			* 1	04880	
					489	*					* 1	04890	
					490	******	*****	******	*********	********	*** 1	04900	
000106					492	NROSO1	EQU	*			1	04920	
000106	0081	0	0		493		STH	RO,0(RO)	ZERO OUT IPL E	SASE ADDR X 700	1	04930	
000108	0089	0	0		494		STH	RO,8(RO)		HECK BYTE X 708	1	04940	-
CC010A	8203	3(0)			495		LRI	R3(0),X'03'	GET CHANNEL CO		1	04950	
COOLCC	83E8	3(1)			496		LRI	R3(1),X'E8'	ADDRESS FOR CA		1	04960	
00010E	-	4	3		497		XR	R4.R3	MOVE CHCB1 ADD	RESS TO REG 4	1	04970	
000110	A814			00126	498		В	NROSO3			1	04980	

									EC		316673
NROS	3705 TYPE	4 CHANNEL	N CHANNE	L ROS	CODE	•			DATE		JAMUARY, 1977
LOC	OBJ CODE	RINIM R2N2	ADDR	STMT	SOURCE	STATE	MENT		P/N		1749512
LUC	000 0000	KININ KENE	, AUU.	31.71	300MGE				LOGIC		CW512
				501 502 503 504 505 506 507	* * * * *	NR IS	OS11. THE DAT	ENTERED BY BRANCHING A STATUS INTERRUPT A THE NSC ADDRESS.	**************************************	**** 1 * 1 * 1 * 1 * 1 * 1 * 1	05010 05020 05030 05040 05050 05060 05070
C00112 000114 000116 C00118 00011A C0011C 00011E 000120 000122	613C 657C 8100 850C 15C8 987A A8B2 7004	1 63 5 67 1(1) 5(1) 5 1	00198 00102	509 510 511 512 513 514 515 516 517 518 519	NROS11A	EQU IN IN LRI LRI XR BCL B OUT OUT	* R1,X'63' R5,X'67' R1(1),X'CO' R5(1),X'OO' R5,R1 NROS10 NROS17 O,STOP O,STOP	FETCH ADDRESS EFETCH NSC ADDRESSE BRANCH IF NOT EQUIPUT HARDSTOP- SHOULD HARDSTOP- SHOULD HARDSTOP- SHOULD	ESS  JAL  T STATUS  NOT BE HERE  NOT BE HERE	1 1 1 1 1 1 1 1	05090 05100 05110 05120 05130 05140 05150 05160 05170 05180 05190
				522 523 524 525 526 527 528 529	* THIS * EACH * IS I! * NEXT * ADAP! * AN I!	ADAPT ISTALL ADAPT IER IS PL CMD	ER IS SCANNED ED. IF THE SCA ER IN THE SEQU CHECKED FOR A	**************************************	CHANNEL ADAPTERS . INE IF THE ADAPTER INSTALLED, THE NITIALLY, EACH	** 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1	05210 05220 05230 05240 05250 05260 05270 05280 05290
000126 000128 00012A 00012C 00013C 000134 000136 000138 00013C 00013E 000140 000142	4405 4303 6374 717C 4501 51C8 F106 9811 677C 0609 880C EB2C EF06 8308 4383 Ad21	4 4 3 4 3 67 1 77 5 4 1 5 1(1) 7 67 6 0 3(1,4) 7(1,4) 3(1) 3 4	00126 00148 0016A 00146 00126 002FA	533 534 535 536 537 538 539 540 541 542 543 544 545 546 547	NROSO3	EQU LH LH OUT IN LH XR TRM BCL IN LH BB BB LRI ST BB BB	* R4,4(R4) R3,2(R4) R3,X'67' R1,X'77' R5,0(R4) R1,R5 R1(1),X'06' NROSO3 R7,X'67' R6,8(R0) NROSO4 R3(1,4),NROSO R7(1,4),BRPOI R3(1),X'08' R3,2(R4) NROSO3 NROSO4	SELECT CA GET SELECTION GET FLAGS AND COMPARE CORRECT CA SE BRANCH TO SCA GET INIT IPL BRANCH TO CHE 5 BRANCH TO CHE TURN ON CA NO STORE SELECTI	I/ENABLE CONTROLS I BITS D SELECT MASK ELECTED ? AN NEXT CA CHECK FLAG BYTE ECK FOR IPL CMD ECK ENABLE ANCH POINT DT ENABLED BIT		05320 05330 05340 05350 05360 05370 05380 05390 05400 05410 05420 05430 05440 05450 05460 05470 05480 05490

NROS	2705 TVDE	4 CHANNEL	N CHANN	EL ROS CODE			EC		316673	
14103	5105 1176	CHANNEL	THE CHARLE	EE NOS CODE			DATE		JANUARY,	1977
FOC	OBJ CODE	RINIM R2N	2 ADDR	STMT SOURC	STAT	EMENT	P/N		1749513	
							LOGIC		CW513	
				552 ******	*****	********	**********************	**** 1	05520	
				553 *		•		* 1	05530	
				554 *		INITIAL IPL CHECK		* 1	05540	
				555 *				* 1	05550	
							ALLED ADAPTER FOR AN IPL COMMAND	* 1	05560	
					ON TI	HE FIRST PASS THRU T	HE CODE.	* 1	05570	
				558 *				* 1	05580	
				559 ******	*****	******	**********	**** ]	05590	
000148				561 NROS04	EQU	*		1	05610	
000148	F506	5(1)		562	TRM	R5(1),X'06'		1	05620	
00014A	9802		0014E	563	BCL	CHKIPL01	CAL IS NOT SELECTED	1	05630	
00014C	0489	4 0		564	STH	R4,8(R0)	SET INIT IPL CHECK BYTE TO NON 2	ERO 1	05640	
CO014E	EF02	7(1,4)	00152	565 CHKIPLO	88	R7(1,4),CHKIPL02	BRANCH IF CA IS ENABLED	1	05650	
000150	A82D		00126	566	В	NROSO3	BRANCH TO SCAN NEXT CA	1	05660	
000152	E902	1(1,4)	00156	567 CHKIPLO	2 BB	R1(1,4),CHKIPL03	LEVEL 3 INTERRUPT	1	05670	
000154	A831		00126	568	8	NROSO3	BRANCH TO SCAN NEXT CA	1	05680	
000156	610C	1 60		569 CHKIPLO	IN	R1,X*60*		1	05690	
000158	C802	1(0,0)	0015C	570	88	R1(0,0),CHKIPL04	INITIAL SELECT INTERRUPT	1	05700	
00015A	A837		00126	571	8	NROSO3	BRANCH TO SCAN NEXT CA	1	05710	
00015C	611C	1 61		572 CHKIPLO	IN	R1,X*61*		1	05720	
00015E	8705	7(1)		573	LRI	R7(1),X'05'		1	05730	
000160	17C8	7 . 1		574	XR	R7,R1		1	05740	
000162	983F		00126	575	BCL	NROSO3	NOT IPL CMD OR NOT NSC ADDRESS	1	05750	
000164	0489	4 0		576	STH	R4,8(R0)	SET INIT IPL CHECK BYTE TO NON Z	ERO 1	05760	
000166	0481	4 0		577	STH	R4,0(R3)	STORE CHCB OF CA WITH IPL CMD	1	05770	
000168	A845		00126	578	В	NROSC3	BRANCH TO SCAN NEXT CA	1	C5780	

•								EC		316673
NROS	3705 TYPE	4 CHANNEL,	N CHANN	EL ROS	S CODE			DATE		JANUARY, 197
LOC	OBJ CODE	R1N1M R2N2	ADDR	STMT	SOURCE	STAT	EMENT	P/N		1749514
								LOGIC		CW514
				581		****	*******	*********	****** 1	
				582					* 1	
				583			INITIAL ENABLE CH	ECK	* 1	
				584		CCCT	TON CHECKS TO BETER	MINE IE THE SELECTED ADARTED I	* 1	
				585 586				MINE IF THE SELECTED ADAPTER I TERED ONLY WHEN THE *NOT ENABL		
				587				CTED ADAPTER IS NOT ENABLED, T		
				588				IS SCANNED. IF THE SELECTED	* 1	
				589				CTED ADAPTER'S 'NOT ENABLED'	* 1	
				590			URNED OFF.		* 1	
				591		-			* 1	
				592	******	****	***********	*****************	******* 1	05920
00016A					NROSO5	EQU	*			05940
00016A		7(1,4)	0016E	595		ВВ		INITIAL ENABLE CHECK		05950
00016C	AA12		00380	596		В	NROSO5A	NOT ENABLED, BRANCH TO NROS	05A 1	05960
C0016E				598	NROSO6	EQU	*			05980
00016E	8300	3(1)		599		LRI	R3(1),X'00'	SET UP TO TURN OFF NOT ENAB	LED FLAG 1	05990
000170	4383	3 4		600		STH	R3,2(R4)	TURN OFF THE NOT ENABLED FL	AG 1	06000
000172				602	NROSO7	EQU	*		1	06020
000172	657C	5 67		603		IN	R5,X'67'		1	06030
000174	EDB0	5(1,5)	001A6	604		88	R5(1,5),NROS12	BRANCH IF NSC ACTIVE	1	06040
000176		7(1)		605		LRI	R7(1),X'06'	SET UP DEVICE END AND UC STA		06050
000178		3 0		606		LH	R3.0(R0)	IPL IN PROGRESS CHECK	1	06060
00017A	9857		00126	607		BCL	NROSO3	BRANCH TO SCAN NEXT CA	1	06070
						****	********	*********	******* 1	06090
				610			5.505 5.66			06100
				611			FIRST PASS	CODE	* 1	06110
				612			IING INSTRUCTIONS OF	CHECK A DOCCOAM INTERCUPT AND	Decet + 1	06120
				613				EQUEST A PROGRAM INTERRUPT AND EG 3 IS SET UP TO REQUEST A FII		06130 06140
				614 615				ET LEVEL 3 INTERRUPTS.		06150
				616		II LK .	LEGITION AND TO KEST	TELVEL 5 INTERROFTS.		06160
						****	********	****************		
00017C				619	NROSO8	EQU	*		1	06190
000170	8160	1(1)		620		LRI	R1(1),X*60*	SET UP PROG INT AND RESET LI	i i	06200
00017E		1(0)		621		LRI	R1(0),X*00*		ī	06210
000180		1 67		622		OUT	R1,X*67*	SET PROG INT	1	06220
000182	820F	3(0)		623		LRI	R3(0),X'OF'	SET UP FINAL XFER SEQ AND LE	3 RESETS 1	06230
000184		3(1)		624		LRI	R3(1),X'00'		1	06240
000186	84F2	5(0)		625		LRI	R5(0),X'F2'	SET COUNT FOR 13 PASSES THRU	J L3 LOOP 1	06250

						EC		316673
NROS	3705 TYPE	4 CHANNEL,	N CHANNEL R	OS CODE		DATE		JANUARY, 1977
LOC	OBJ CODE	RINIM R2N2	ADDR STM	T SOURCE STA	TEMENT	P/N		1749515
						LOGIC		CW515
				-	*******	***********	_	
				9 * 0 *	FIRST DAGE (	CODE		06290
				1 *	FIRST PASS ( Interrupt hans		* 1	06300 06310
•				2 *	INTERRUPT PANE	DLEK	* 1	
					OWING INSTRUCTIONS (	CHECK FOR LEVEL 1 INTERRUPTS, INITIAL	_	
						STATUS LEVEL 3 INTERRUPTS. IF AN		06340
			63			TER 13 PASSES, THE CODE TURNS ON THE		06350
			63			LED' FLAG AND BRANCHES TO SCAN THE		05360
			63	7 * NEXT ADAR	PTER.		* 1	06370
				8 *			* 1	06380
			63	9 ********	***********	***************	r** <u>1</u>	06390
C00188			64	1 NROSO9 EQU	*		1	06410
000188	9401	5(0)	642		R5(0),X*01*	INCREMENT COUNTER	1	06420
00018A	880C		00198 643	3 BZL	NROS10	PROGRAM INTERRUPT DID NOT OCCUR	1	06430
CO018C	716C	1 76	644	4 IN	R1,X*76*		1	06440
00018E		1(0,5)	001DC 645	5 88	R1(0,5),NRCS19 R1,X'77'	BRANCH TO L1 HANDLER	1	06450
000190		1 77	64		R1,X'77'	GET L3 INT REQ	1	06460
000192		1(1,4)	001BC 64		R1(1,4),NROS15		1	06470
C00194		1(1,3)	001A0 648			DATA STATUS L3	1	06480
000196	A811		00188 649	9 B	NROSO9		1	06490
C00198			651	NROS10 EQU	*		1	06510
CO0198		5 4	652		R5,2(R4)		. 1	•
00019A		5(1)	653		R5(1),X*08*	TURN ON 'NOT ENABLED FLAG'	1	06530
00019C		5 4	654		R5,2(R4)	STORE SELECTION/ENABLE CONTROLS	1	06540
00019E	A878		00126 655	5 B	NROS03	BRANCH TO SCAN NEXT CA	1	06550
					*******	************	** 1	
			658	=			* 1	06580
					NG INSTRUCTIONS CHE	CK FOR THE EXPECTED PROGRAM INTERRUPT	* 1	
			660				* 1	06600
			661	_ ********	********	************	** 1	06610
0001A0	(126	1 (2		NROS11 EQU	* *	CET DATA (STATUS CONTROL	1	06630
C001A0		1 62	664		R1, X 62 1	GET DATA/STATUS CONTROL	1	06640
0001A2			001D2 665 00112 666		R1(0,7),NRCS17 NROS11A	PROGRAM INTERRUPT BRANCH	l ,	06650
0001A4	HOYD		00112 000	, 6	MUCOTTA		1	06660

							,		F <i>C</i>		316673	
NROS	3705 TYPE	4 CHA	NNEL,	N CHANN	IEL RO	S CODE			DATE		JANUARY,	1977
LOC	OBJ CODE	R1N1M	R2N2	ADDR	STMT	SOURCE	STATI	EMENT	P/N		1749516	
							_		LOGIC		CW516	
					669		****	********	************	**** 1	06690	
					670					* 1	06700	
					671				HECK FOR AN INITIAL SELECT LEVEL 3	* 1	06710	
					672 673	•			LECT LEVEL 3 IS PRESENT ON THE NSC O HANDLE THE INITIAL SELECT INTERRU	* 1 IDT * 1	06720 06730	
					674				PRESENT OR THE INITIAL SELECT IS NO		06740	
					675				UC STATUS IS SET UP IN REG 7 AND TH		06750	
					676			CHES TO THE 'FIRST		* 1	06760	
				•	677					* 1	06770	
					678	*****	*****	**********	***********	**** 1	06780	
C001A6					680	NROS12	EQU	*		1	06800	
C001A6		_	77		681		IN	R1,X*77*	GET INTERRUPT REQUEST	1	06810	
0001A8	E904	1(1,4	4)	OOLAE	682		88	R1(1,4),NROS14	INITIAL SELECT L3 BRANCH	1	06820	
0001AA					684	NROS13	EQU	*		1	06840	
COOLAA	870E	7(1)			685		LRI	R7(1),X*0E*	SET UP CE, DE, UC STATUS	1	06850	
COOLAC	A833			0017C	686		В	NROSO8	BRANCH TO FIRST PASS CODE	1	06860	
0001AE					688	NROS14	EQU	*		1	06880	
0001AE	611C	1	61		689		IN	R1,X*61*	GET ADDRESS OF SUBCHANNEL	ī	06890	
C001B0	657C		67		690		IN	R5,X*67*	GET NSC ADDRESS	1	06900	
000182	8100	1(1)			691		LRI	R1(1),X*00*	CLEAR BYTE 1 OF REG 1	1	06910	
0001B4		5(1)			692		LRI	R5(1),X*00*	CLEAR BYTE 1 OF REG 5	1	06920	
C001B6	15C8	5	1		693		XR	R5+R1	ARE ADDRESSES EQUAL	1	06930	
0001B8	9811			001AA	694		BCL	NROS13	BRANCH IF NOT EQUAL	1	06940	
0001BA	A84C			00208	695		В	NROS21	BRANCH TO HANDLE INIT SELECT L3	1	06950	

									EC		316673
NROS 370	5 TYPE	4 CHAN	NEL,N	CHANNE	L ROS	CODE			DATE		JAMUARY, 1977
LOC OBJ	CODE	RINIM	R2N2	ADDR	STMT	SOURCE	STATI	EMENT	P/N		1749517
									LOGIC		CW517
					698 4 699 4 700 4 701 4	k :	*****		INTERRUPT WHILE IN	* 1	06980 06990 070C0 07010
					702 4 703 4 704 4 705 4 706 4	F IF S F Bran	CHES THE	RESET IS PRESENT TO THE INITIAL SEL E NSC ADDRESS , TH	ON THE SELECTED ADAPTER, THE CO ECT CODE. IF THE INITIAL SELEC E INITIAL SELECT INTERRUPT IS S SCANNING FOR THE PROGRAM	# 1 DDE # 1 CT IS # 1 # 1	07020 07030 07040 07050 07060
					707 ± 708 ± 709 ±	INTE CODE	RRUPT.	IF THE INITIAL CHES TO THE INITIA	SELECT IS ON THE NSC ADDRESS, 1	THE * 1 * 1 * 1	07070 07080 07090
0001BC 0001BC 6100 0001BE F8C8 0001CO 6110 0001C2 6570 0001C4 8100	8 C C O	1(0,7 1 5 1(1)	60 ') 61 67	00208	713 714 715 716 717	IROS15	EQU IN BB IN IN	* R1,X'60' R1(0,7),NROS21 R1,X'61' R5,X'67' R1(1),X'00' R5(1),X'00'	CLEAR BYTE 1 OF REG 1	IDLER 1 1 1 1 1 1	07120 07130 07140 07150 07160 07170
0001C6 8500 0001C8 15C8 0001CA 9802 0001CC A834	8 2	5(1) 5		001CE 00208	718 719 720 721		LRI XR BCL B	R5,R1	CLEAR BYTE 1 OF REG 5 ARE ADDRESSES EQUAL BRANCH IF NOT EQUAL BRANCH TO INIT SEL L3 HANDL	1 1	07180 07190 07200 07210
0001CE 0001CE 6104 0001D0 A84E		1	60	00188	723 N 724 725	ROS16	EQU OUT B	* R1,X*60* NROSO9	RESET INITIAL SELECT L3	1	07230 07240 07250
					728 * 729 * 730 *	STAT	us is	OUTPUTED TO THE SE	ELECTED ADAPTER.	* 1 * 1 * 1	
000192 000102 6764	<b>'</b>	7	66		733 N 734	ROS17	EQU OUT	* R7•X*66*	OUTPUT STATUS		07330 07340

										EC		316673	
NROS	3705 TYPE	4 CHA	NNEL,	N CHANN	EL ROS	CODE				DATE		JANUARY,	1977
										P/N		1749518	
LOC	OBJ CODE	RINIM	R2N2	ADDR	STMT	SOURCE	STATE	MENT		LOGIC		CW518	
											. 1	07270	
						******	*****	******	*******	<b>* * * * * * * * * * * * * * * * * * * </b>	* 1	07370 07380	
					738 739	* OUTD	IT NCC	ACORESS AND RESI	T LEVEL 3 INTERRUPT.	BRANCH TO 3	* 1	07390	
					740			ADAPTER.		3	* 1	C7400	
					741						* 1	07410	
					742	******	*****	*********	*******	***********	* 1	07420	
0001D4					744	NROS18	EQU	*				07440	
0001D4	617C	1	67		745		IN	R1,X'67'	INPUT NSC ADDRES OUTPUT NSC ADDRE		1	07450 07460	
000106		1	63		746		OUT	R1,X'63' R3,X'62'	OUTPUT TO RESET		i	07470	
0001D8		3	62	00126	747 748		OUT B	NROSO3	BRANCH TO SCAN N		1	C7480	
OUOIDA	AODI			00120	140		J					0.75.00	
					750	*******	*****	******	********	**************	•	07500	
					751	*			HANDLE THE LEVEL 1 1		* 1 * 1	07510 07520	
					752	* THE	CLLOW	ING INSTRUCTIONS	HANDLE THE LEVEL 1 INCTIVE WITH A COMMAND	THE LEVEL 1	* 1	07530	
					753 754	* INTE	PRIDT	IS RESET AND THE	CODE BRANCHES TO SCA	N THE NEXT ADAPTER.	_	07540	
					755					1	* 1	07550	
						******	*****	******	*******	*******	* 1	07560	
0001CC					758	NROS19	EQU	<b>*</b>			1	07580	
0001DC		5	67		759		IN	R5,X*67*			1	07590	
0001DE	ED88	5(1,		001E8	760		88	R5(1,5),L101	IS NSC ACTIVE		1	07600 07610	
0001E0		5	5		761		XR	R5, R5	CLEAR REG 5 SET UP TO RESET	CA 11	1	07620	
0001E2		5(1) 5	67		762 763		LR! OUT	R5(1),X'20' R5,X'67'	RESET CA LI	CA CI	i	07630	
0001E4 0001E6		)	01	00126	764		В	NROSO3	BRANCH TO SCAN N	EXT CA	1	07640	
0001E8		5	4	00220		L101	LH	R5,0(R4)	GET SELECTED CA	FLAGS	1	07650	
0001FA		5(0)			766		LRI	R5(C),X'01'	SET UP SELECTED		1	07660	
0001EC	4581	5	4		767		STH	R5,0(R4)	STORE SELECTED C		1	07670 07680	
0001EE		1	0		768		LH	R1,0(R0)	IPL ON THIS CA	OF CA WITH IPL CMD		07690	
0001F0		1	4	001F6	769 770		XR BZL	R1,R4 NROS20	IPL IS IN PROGRE	SS ON THIS CA	î	C7700	
0001F2 0001F4				00178	771		B	NROS10			1	07710	
C001F6		•			772	NROS20	EQU	*			1	07730	
C001F6		1	0		774		STH	R1,0(R0)	SET BASE ADDR OF	IPL TO ZERO	1	07740	
0001F8		1(0)			775		LRI	R1(0),X'FB'	SET COUNT TO FF		1	07750	
0001FA		4	4			CONTLOOP	LH	R4,4(R4)	FETCH CONTROL BL		1	07760	
COOIFC		1(0)		00101	777		ARI	R1(0),X*01*	INCREMENT COUNTE BRANCH TO SCAN N		1	07770 07780	
0001FE				00126	778		BZL	NROSO3 R3,2(R4)	FETCH SELECTION/		1	07790	
000200		3 3(1)	4		779 780		LH LRI	R3(1),X'08'	TURN ON "NOT ENA		1	07800	
000202 000204		3	4		781		STH	R3,2(R4)	STORE SELECTION/		ī	07810	
000204		-		001FA	782		В	CONTLOOP		NEXT CONTROL BLOCK	1	07820	

			-								
NOGE	2705 TVD5			151 205 6	005		•	EC			316673
NROS	3105 1776	4 CHANNEL,	N CHANN	IEL KUS C	יייי			DATE			JANUARY, 1977
	001 0000	RINIM R2N2	4000	CTUT	counce e		. ALT	P/N			•
LOC	OBJ CODE	KINIM KZNZ	AUUK	STMT	SOURCE S	STATEME	NI	ryn			1749519
								LOGIC			CW519
				785 **	******	*****	*******	********	******	1	07850
				786 *					*	1	07860
				787 *			INITIAL SELECT IN	ITERRUPT HANDLER	*	1	07870
				788 *						1	07880
				789 *				THE INITIAL SELECT LEVEL 3		1	07890
				790 *				HE INITIAL SELECT INTERRUPT IS		1	07900
				791 *	DETERM	INED A	ND THE CODE BRANC	HES TO HANDLE THE INTERRUPT.		1	07910
				792 *							07920
				793 **	******	*****	*******	**********	******	1	07930
000208				795 NR		QU *				1	07950
000208		3 3		796			3,R3	CLEAR REG 3		1	07960
C0020A		3(0)		797			3(0),X'06'	SET UP TO RESET INIT SEL AND	) L3	1	07970
C0020C		1 60		798			1,X'60'	WHY INIT SEL L3		1	07980
C0020E		1(0,7)	00240	799			1(0,7),NROS25	SYSTEM PESET		Ţ	07990
000210		1(0,2)	00244	800			1(0,2),NROS26	SELECTIVE RESET		Ţ	08000
C00212 000214		1(0,1) 1(0,6)	00222 001D4	801			1(0,1),NROS22	INTERFACE DISCONNECT		Ţ	08010 08020
000214		1(0,5)	0026E	802 803			1(0,6),NROS18 1(0,5),NROS3C	STACKED STATUS CLEARED STACKED INITIAL STATUS		1	08030
C00218		1(0,3)	00288	804			1(0,3),NROS3C	BUS OUT CHECK		1	08040
000218		1(0,0)	0023E	805			1(0,0),NSELBRPT	NORMAL INITIAL SELECTION		1	08050
000210		1 4	00236	806			1,0(R4)	GET SELECTED CA FLAGS		1	08060
C0021E		1(0)		807			1(0),x'01'	SET UP L1 FLAG		1	08070
000220		1 4		808			1,0(R4)	STORE UPDATED FLAGS		1	08080
COOLEO	4101			000						•	
				810 *** 811 *	******	*****	*******	****************			
				812 *	THE E	ายเกม	NC INSTRUCTIONS S	ET UP CE, DE, UC STATUS AND		1	08110 08120
				813 *			L STATUS STATE.	ET OF CE, DE, OC STATUS AND		1	08130
				814 *	361 0	F FINA	L STATUS STATE.			_	08140
					******	****	*******	**************	*****		08150
000222				017 ND(	S22 E	QU *				,	00170
000222		7(1)		818			7(1),X*0E*	SET UP CE , DE, UC STATUS		1	08170 08180
000222	0702	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		010	C	NI K	11177	SET OF CE T DET OC STATOS		1	00100
000224		2401		820 NR		QU *		CET UD ETNIAL CTATUS OTAT		1	08200
000224		3(0)		821			3(0),X'08'	SET UP FINAL STATUS STATE		1	08210
000226		1 0		822	L		1,0(RO)	GET IPL BASE ADDRESS	•	1	08220
000228		1 4	00103	823	X		1,R4	IS IPL IN PROGRESS ON THIS C		1	08230
00022A		1 0	001D2	824			ROS17	IPL IS NOT IN PROGRESS ON TH	15 CA	I	08240
000220		1 0		825			1,0(RO)	ZERO OUT IPL BASE ADDRESS		1	08250
00022E	OUFL	1(0)		826	L	RI R	1(0),X*FC*	SET COUNT TO FF MINUS 3		L	08260

									EC		316673	
NROS	3705 TYPE	4 CHA	NNEL.	N CHANN	EL RO	S CODE			DATE		JANUARY, 197	7
LOC	OBJ CODE	RINIM	R2N2	ADDR	STMT	SOURCE	STATE	MENT	P/N		1749520	
									LOGIC		CW520	
000230					829	NROS24	EQU	*			08290	
000230	· ·	4	4		830		LH	R4,4(R4)	FETCH CONTROL BLOCK FOR NEXT CA		08300	
000232		1(0)			831		ARI	R1(0),X*01*	INCREMENT COUNTER		08310	
000234				001D2	832		BZL	NROS17	BRANCH TO OUTPUT STATUS		08320	
000236		5	4		833		LH	R5,2(R4)	FETCH SELECTION/ENABLE CONTROLS		08330	
000238		5(1)			834		LRI	R5(1),X'08'	TURN ON 'NOT ENABLED FLAG'		08340	
00023A		- 5	4		835		STH	R5,2(R4)	STORE SELECTION/ENABLE CONTROLS		08350	
C0023C				00230	836		В	NROS24	BRANCH TO FETCH NEXT CONTROL BLOCK		08360 08370	
00023E				002A6	837	NSELBRPT	В	NROS35	BRANCH	ī	08370	
					920	******	*****	****	***********	1	08390	
					840		*****		<b>*</b>		08400	
					841	± THE	FOLIC	WING INSTRUCT	IONS HANDLE THE SYSTEM RESET OR SELECTIVE *	1	08410	
					842	# RES	FT WHI	CH OCCURS ON	AN INITIAL SELECTION. ALSO, COMMON CODE *		08420	
					843	* IS	USED T	O HANDLE THE	SELECTIVE RESET FROM THE LEVEL 3		08430	
					844			HANDLER.	*		08440	
					945	•			*		08450	
					846	*****	*****	******	************	1	08460	
					040	NDOCAE	<b>5</b> 011	•		1	08480	
000240			_			NROS25	EQU	* 01 01	CLEAR REG 1	_	08490	
000240		1	1		849		XR OUT	R1,R1 R1,X"62"			08500	
000247	6124	1	62		850		001	KIIV. OF				
000244					852	NROS26	EQU	*			08520	
C00244	11C8	1	1		853		ΧR	R1,R1	CLEAR REG 1		08530	
000246		1(1)			854		LRI	R1(I),X*10*	SET UP TO RESET SYS RESET		08540	
000248		1	67		855		OUT	R1,X'67'	OUTPUT TO RESET SYS RESET		08550	
C0024A		1	1		856		XR	R1,R1	CLEAR REG 1		08560	
C0024C		1(0)			857		LRI	R1(0),X*04*	SET UP TO RESET INIT SEL L3	1	08570	
000045					850	NROS27	EQU	*		1	08590	
00024E	(124	,	42		860		OUT	R1,X*62*	RESET INIT SEL L3 OR DATA/STATUS L3	1	08600	
00024E		1	62		861		LH ·	R1.0(R4)	GET BOC AND L1 FLAGS	1	08610	
000250		1	7		862		LRI	R1(0),X*00*	RESET BOC AND L1 FLAGS	1	08620	
000252		1(0)	4		863		STH	R1,0(R4)	STORE UPDATED BOC AND L1 FLAGS	1	08630	
000254	4101	1	7		003		•••					
000256					865	NROS28	EQU	*			08650	
000256	0101	1	0		866		LH	R1,0(R0)	GET IPL BASE ADDRESS		08660	
000258		ì	4		867		XR	R1,R4	• • • • • • • • • • • • • • • • • • • •		08670	
00025A				00126	868		BCL	NROSO3			08680	
00025C		1	0		869		STH	R1,0(R0)	ZERO OUT IPL BASE ADDRESS		08690	
00025E		1(0)			870		LRI	R1(0),X'FC'	SET COUNT TO FF MINUS 3	1	08700	

					EC	316673
NROS	3705 TYPE	4 CHANNEL,N CHAN	NEL ROS CCDE		DATE	JANUARY, 1977
LOC	OBJ CODE	RINIM R2N2 ADDR	STMT SOURCE STA	TEMENT	P/N	1749521
200					LOGIC	CW521
000260 000262 000264 000266 000268	4405 9001 8941 4303 8308	4 4 1(0) 00126 3 4 3(1)	873 NROS29 EQU 874 LH 875 ARI 876 BZL 877 LH 878 LRI	R4,4(R4) R1(0),X°01° NROSO3 R3,2(R4) R3(1),X°08°	FETCH CONTROL BLOCK FOR NEXT CA INCREMENT COUNTER BRANCH IF ROUTINE COMPLETED FETCH SELECTION/ENABLE CONTROLS TURN ON 'NOT ENABLED FLAG'	1 08730 1 08740 1 08750 1 08760 1 08770 1 08780 1 08790
00026A C0026C		3 4 00260	879 STH 880 B	R3,2(R4) NROS29	STORE SELECTION/ENABLE CONTROLS BRANCH TO FETCH NEXT CONTROL BLOCK	1 08800
			883 * 884 * THE FOL 885 * ON AN I	LOWING INSTRUCTIONS NITIAL SELECTION.	HANDLE STACKED INITIAL STATUS *	1 08830 1 08840 1 08850 1 08860
00026E 000270 000270 000272 000274 000278	D88A 611C F1FF 880E 870C	1(0,3) 0027A 1 61 1(1) 00284 7(1) 00224	894 LRI	* R1(0,3),NROS31 R1,X*61* R1(1),X*FF* NROS32 R7(1),X*OC* NROS23	BUS OUT CHECK INPUT CMD TEST FOR TEST I/O CMD BRANCH DUE TO TEST I/O CMD NO-OP CMD, SET CE AND DE STATUS BRANCH TO SET FINAL STATUS STATE	1 08890 1 08900 1 08910 1 08920 1 08930 1 08940 1 08950
C0027A 00027A 00027C 00027E 000280 000282	8702 4101 8002 4181 A861	7(1) 1 4 1(0) 1 4	897 NROS31 EQU 898 LRI 899 LH 900 LRI 901 STH 902 B	* R7(1),X*02* R1,0(R4) R1(0),X*02* R1,0(R4) NROS23	SET UP UNIT CHECK STATUS GET BOC AND L1 FLAGS SET UP BOC FLAG STORE BOC AND L1 FLAGS BRANCH TO SET FINAL STATUS STATE	1 08970 1 08980 1 08990 1 09000 1 09010 1 09020
C00284 000286	D208	3(0) 001D4	905 ORI 906 B	R3(0),X*08* NROS18	SET FINAL STATUS SEQUENCE	1 09050 1 09060

EC 316673 3705 TYPE 4 CHANNEL N CHANNEL ROS CODE DATE JANUARY, 1977 P/N 1749522 STMT SOURCE STATEMENT LOC OBJ CODE RINIM R2N2 ADDR LOGIC CW522 09090 09100 910 \* 09110 THE FOLLOWING INSTRUCTIONS HANDLE BUS OUT CHECKS WHICH 911 \* 09120 \* 1 OCCUR ON INITIAL SELECTION. 912 \* 09130 \* 1 913 \* 09140 09160 916 NROS33 EQU 000288 09170 GET BOC AND L1 FLAGS R1,0(R4) LH 917 000288 4101 1 09180 SET UP BOC FLAG R1(0), X'02' LRI 918 00028A 8002 1(0) 09190 STORE BOC AND LI FLAGS R1,0(R4) 919 STH 00028C 4181 1 09200 GET IPL BASE ADDRESS R5,0(R0) 920 LH 0 00028E 0501 5 09210 IS IPL IN PROGRESS ON THIS CA XR R5,R4 921 000290 4508 5 09220 IPL IS NOT IN PROGRESS ON THIS CA 001D4 922 BCL NROS18 C00292 98C1 09230 ZERO OUT IPL BASE ADDRESS STH R5.0(R0) 0 923 000294 0581 09240 SET COUNT TO FF MINUS 3 R1(0), X'FC' LRI 000296 80FC 1(0) 924 09260 926 NROS34 EQU 000298 09270 FETCH CONTROL BLOCK FOR NEXT CA R4,4(R4) 927 LH 000298 4405 09280 INCREMENT COUNTER R1(0),X'01' ARI 928 1(0) 00029A 9001 09290 NROS18 00104 BZL 929 00029C 88CB 09300 FETCH SELECTION/ENABLE CONTROLS R5,2(R4) 4 930 LH CO029E 4503 5 09310 TURN ON 'NOT ENABLED FLAG' R5(1),X'08' 0002A0 8508 5(1) 931 LRI 09320 STORE SELECTION/ENABLE CONTROLS R5,2(R4) STH 932 0002A2 4583 5 09330 BRANCH TO FETCH NEXT CONTROL BLOCK NROS34 00298 933 0002A4 A80F 935 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 09350 09360 936 \* THE FOLLOWING INSTRUCTIONS HANDLE NORMAL INITIAL SELECTION. 09370 937 \* THE COMMAND IS CHECKED TO DETERMINE IF A VALID COMMAND HAS 09380 938 \* BEEN RECEIVED. THE CODE BRANCHES TO HANDLE AN IPL COMMAND 09390 939 \* 09400 OR A SENSE COMMAND. 940 \* 09410 941 \* 09420 09440 944 NROS35 EQU 0002A6 09450 FETCH CMD R1,X\*61\* 61 945 IN CO02A6 611C 1 CONDITION BYTE O FOR OVERFLOW 09460 R1(0), X'FF' 946 1(0) 0002A8 80FF ADDITION OF F6 SO THAT ANY COMMAND 09470 947 ARI R1(1),X'F6' 1(1) 0002AA 91F6 OF OA OR GREATER WILL CAUSE A CARRY 1 09480 948 \* BRANCH IF COMMAND NOT VALID FOR 09490 002C0 949 BCL NROS36 G002AC 9812 09500 SINGLE SUBCHANNEL ADDRESS 950 \* 09510 CHECK FOR COMMAND X'09" 951 ARI R1(1), X'01' 1(1) 0002AE 9101 BRANCH IF WRITE BREAK POINT COMMAND 1 09520 00222 BCL NROS22 952 C002B0 9891 CHECK FGR X\*06\*, X\*07\* OR X\*08\* 09530 R1(1),X'03' 1(1) 953 ARI 0002B2 9103 COMMAND NOT VALID 09540 NROS36 00200 954 BCL CO02B4 980A IPL CMD WILL CAUSE A CARRY 09550 R1(1),X'01' 955 ARI 1(1) C00286 9101 BRANCH IF IPL COMMAND 09560 NROS37 002C8 956 BCL 0002B8 980E SENSE CMD WILL CAUSE A CARRY R1(1),X\*01\* 09570 1(1) 957 ARI 0002BA 9101 BRANCH IF SENSE COMMAND 09580 002D8 958 BCL NROS38 CO02BC 981A

В

00222

0002BE A89F

959

NROS22

									EC		316673
NROS	3705 TYPE	4 CHANNEL,	N CHANN	EL ROS	CODE				DATE		JANUARY, 1977
LOC	OBJ CODE	RINIM R2N2	ACDR	STMT	SOURCE	STATE	EMENT		P/N		1749523
									LOGIC		CW523
0002C0 0002C0 0002C2 0002C4 0002C6	4101 8004 4181	1 4 1(0) 1 4	00222	962 963 964 965 966	NROS36	EQU LH LRI STH B	* R1,0(R4) R1(0),X*04* R1,0(R4) NROS22	GET CMD REJ, L1 AND SET UP CMD REJ FLAG STORE FLAGS	BOC FLAGS	1 1 1 1	09620 09630 09640 09650 09660
				968 969 970 971 972 973	*	A TRAN	ISFER IS SET UP WITH	**************************************	AN INBOUND * * *	1 1 1 1 1	09680 09690 09700 09710 09720 09730
C002C8 C002CA C002CC C002CC C002CC C002D0 C002D2 C002D4 C002D4	8404 8500 5583 058D D240 8302	4 0 5(0) 5(1) 5 5 5 0 3(0) 3(1)	001D4	975 976 977 978 979 980 981 982 983	NROS37	EQU STH LRI LRI STH STH ORI LRI B	* R4,0(R0) R5(0),X*04* R5(1),X*00* R5,2(R5) R5,12(RC) R3(0),X*40* R3(1),Y*02* NROS18	SYGRE SELECTED CA AS SET START ADDRESS STORE BAD COUNT AT LO STORE ADDRESS COUNTER SET UP INBOUND DATA X COUNT=2	DCATION X'402' R AT X'70C'	1 1 1 1 1 1 1	09750 09760 09770 09780 09790 09800 09810 09820 09830
				985 986 987 988 989 990 991	*	SENSE SENSE WITH C	OWING INSTRUCTIONS HE BYTE IS SET UP AS BYTE IS OUTPUTTED	**************************************	* : FLAGS.	1 1 1 1 1	09850 09860 09870 09880 09890 09900 09910
0002D8 0002D8 0002DA 0002DC 0002DE 0002E0 0002E2	F888 F80A E88C 8602	1 4 1(0,7) 1(0,6) 1(0,5) 7(0)	002E4 002E8 002EC	994 995 996 997 998 999	NROS38	EQU LH BB BB BB LRI B	* R1,0(R4) R1(0,7),NROS39 R1(0,6),NROS40 R1(0,5),NROS41 R7(0),X'02' NROS42	GET L1 AND BOC FLAGS BRANCH IF L1 FLAG IS BRANCH IF BOC FLAG IS BRANCH IF CMD REJ FLA SET UP IPL REQUIRED S	ACTIVE S ACTIVE NG IS ACTIVE	1 1 1 1 1 1	09940 09950 09960 09970 09980 09990 10000
0002E4 0002E4 0002E6		7(0)	002EE	1002 1003 1004	NROS39	EQU LRI B	* R7(0).X*12* NROS42	SET UP EQUIP CHECK AN	ND IPL REQUIRED	1 1 1	10020 10030 10040
0002E8 0002E8 0002EA		7(0)	002EE	1007	NROS40	EQU LRI B	* R7(0),X*22* NROS42	SET UP BUS OUT CHECK	AND IPL REG	1 1 1	10060 10070 10080

								EC		316673
NROS	3705 TYPE	4 CHANNEL	N CHANN	IEL RU	2 CODE			DATE		JANUARY, 1977
LOC	OBJ CODE	RINIM R2N2	ADDR	STMT	SOURCE	STATE	MENT	P/N		1749524
								LOGIC		CW524
0002EC 0002EC	8682	7(0)		1011 1012	NROS41	EQU LRI	* R7(0),X*82*	SET UP CMD REJ AND IPL REQUIRED	1	
0002EE CC02EE 0002F0 C002F2 C002F4 C002F6	D280 8301 8000 4181	7 64 3(0) 3(1) 1(0) 1 4	00104	1015 1016 1017 1018 1019 1020 1022 1023 1024 1025 1026 1027 1028	******* *  *  THE  INIT  INTE	FOLLOW IAL SE RRUPTS	DATA/STATUS LEVE ING INSTRUCTIONS LECT LEVEL 3 INTE . THE EXPECTED I	CUTPUT SENSE BYTE SET UP OUTBOUND XFER SET UP COUNT EQUAL 1 TURN OFF BOC OR L1 FLAG STORE L1 AND BOC FLAGS  ***********************************	* 1 * 1 * 1 * 1 * 1 * 1	10150 10160 10170 10180 10190 10200 10220 10230 10240 10250 10260 10270 10280 10290
0002FA C002FA C002FC 0002FE C00300 000302 000304 000306 C00308 00030A	E88A 717C E908 D98A A9E1 A885 A92F A905	1 76 1(0,5) 1 77 1(1,4) 1(1,3)	00308 0030A 0030E 00126 00284 001DC 00208 001D4	1032 1033 1034 1035 1036 1037 1038 1039 1040	NROS43	EQU IN BB IN BB BB B B	* R1,X'76' R1(0,5),L1BRPT R1,X'77' R1(1,4),BBRPT R1(1,3),NRUS44 NROS03 NROS32 NROS32 NROS19 NROS21 NROS18	GET L1 INTERRUPT REQUEST BRANCH TO L1 HANDLER GET L3 INTERRUPT REQUEST BRANCH TO HANDLE INIT SEL L3 BRANCH TO HANDLE DATA/STATUS L3 BRANCH TO SCAN NEXT CA	1	10320 10330 10340 10350 10360 10370 10380 10390 10400 10410

316673 EC 3705 TYPE 4 CHANNEL, N CHANNEL ROS CODE DATE JANUARY, 1977 1749525 P/N LOC OBJ CODE RINIM R2N2 ADDR STMT SOURCE STATEMENT LOGIC CW525 10450 10460 1046 \* 10470 CONTINUATION OF CATA/STATUS LEVEL 3 1047 \* 10480 INTERRUPT HANDLER 1048 \* 10490 1049 \* 105CO THE FOLLOWING INSTRUCTIONS DETERMINE THE REASON FOR THE 1050 \* 10510 DATA/STATUS LEVEL 3 INTERRUPT. 1051 \* 10520 \* 1 1052 \* 10530 10550 EQU 00030E 1055 NROS44 10560 SET UP DATA/STATUS SERVICE RESET R3(0),X'02' LRI 00030E 8202 3(0) 1056 10570 R1, X'62' 1057 IN C00310 612C 1 62 10580 BRANCH IF SELECTIVE RESET R1(1,1),NROS47 1(1,1) 0032E 1058 ВВ C00312 C99A 10590 BRANCH IF STATUS STACKED 1059 88 R1(1,3),TESTIC1 000314 D991 00306 1(1,3) BRANCH IF CHAN STOP OR INTERFACE DIS 1 10600 R1(0,5),NRCS51 000316 E8C8 00360 1060 88 1(0,5) 10610 BRANCH IF BUS OUT CHECK C00318 C920 0033A 1061 BB R1(1,0),NROS48 1(1,0) 10620 BRANCH DUE TO FINAL STATUS TAKEN R1(0,4),F1BRPT 1(0,4) 0030C 1062 BB 00031A E811 10630 BRANCH IF INBOUND XFER SEQUENCE 00342 1063 BB R1(0,1),NRCS49 1(0,1) 00031C C8A4 10640 GET IPL BASE ADDRESS 1064 LH R1.C(RO) C0031E 0101 10650 BRANCH IF IPL IS NOT IN PROGRESS BZL NROS45 00326 1065 000320 8804 10660 COMPARE IPL ADDRESS WITH SELECTED CA 1 R1,R4 XR 000322 41C8 1066 1 IPL IS IN PROGRESS ON ANOTHER CA 10670 BCL NROS46 0032A 1067 000324 9804 10690 10700 \* 1 1070 \* 10710 THE FOLLOWING INSTRUCTIONS SET UP FINAL STATUS FOR \* 1 1071 \* \* 1 10720 THE SENSE COMMAND. 1072 \* \* 1 10730 1073 \* 10740 10760 1076 NROS45 EQU 000326 10770 SET UP CE, DE STATUS 1077 LRI R7(1),X'OC' C00326 870C 7(1) 1 10780 NROS23 000328 A907 00224 1078 10800 1080 NROS46 EQU C0032A R7(1),X'00' SET UP CE, DE, UE STATUS 10810 LRI 00032A 870D 1081 7(1) NROS23 10820 00224 1082 00032C A90B 10840 **\* 1 10850** 1085 \* THE FOLLOWING INSTRUCTIONS HANDLE SELECTIVE RESET DURING **\*** 1 10860 1086 \* 10870 \* 1 1087 \* DATA/STATUS LEVEL 3 INTERRUPT. \* 1 10880 1088 \* 10890 10910 1091 NROS47 EQU 00032E R1.R1 XR CLEAR REG 1 10920 1092 G0032E 11C8 SET UP TO RESET SYS RESET/NSC ACTIVE 1 LRI R1(1),X\*10\* 10930 000330 8110 1(1) 1093 OUTPUT TO RESET SYS RESET/NSC ACTIVE 1 OUT R1,X'67' 10940 1094 000332 6174 1 67 XR R1.R1 CLEAR REG 1 10950 1095 200334 1108 SET UP TO RESET DATA/STATUS L3 R1(0),X'02\* LRI 1 10960 1(0) 1096 000336 8002 BRANCH TO RESET DATA/STATUS L3

NROS27

0024E 1097

C00338 A8ED

		•					EC		316673	
NROS	3705 TYPE	4 CHANNE	L.N CHAN	NEL ROS	CODE		DATE		JANUARY,	1977
							P/N		1749526	
LOC	OBJ CODE	RINIM R2	N2 ADDR	STMT	SOURCE STATE	MENT	LOGIC		CW526	
									0,_0	
				1100 **		******	**********	_		
				1101 * 1102 *		OWING INSTRUCTIONS	HANDLE BUS OUT CHECKS DURING	* 1	11010 11020	
				1103 *		TUS LEVEL 3 INTERR		* 1	11030	
				1104 *				* 1		
				1105 **	*********	**********	*****************	******	11050	
00033A				1107 N	ROS48 EQU	*		1	11070	
00033A		1 4		1108	LH	R1,0(R4)	GET BOC AND L1 FLAGS	1	11080	
00033C 00033E		1(0)		1109 1110	LRI STH	R1(0),X*02* R1,O(R4)	SET UP BOC FLAG STORE FLAGS		11090 11100	
C00340		• •	00222		B	NROS22	BRANCH TO PRESENT CE, DE, UC			
									11120	
				1113 **		******	*****************		11140	
				1115 *		OWING INSTRUCTIONS	HANDLE THE INBOUND DATA TRANSFER		11150	
				1116 *			TWO BYTES OF DATA ARE STORED.		11160	
				1117 *	INBOUND	DATA TRANSFER IS S	ET UP WITH COUNT EQUAL 2.	* 1	11170	
				1118 *					11180	
				1119 **	*****	*******	***********	*****	11190	
000342				1121 NF	ROS49 EQU	*		1	11210	
000342	0101	1 0		1122	LH	R1,0(R0)	GET IPL BASE ADDRESS	1	11220	
000344		1 4		1123	XR	R1,R4	COMPARE WITH SELECTED CA	1	11230	
C0C346			00222		BCL	NROS22	IPL IS NOT IN PROGRESS ON THIS		11240	
000348 00034A		5 0 5(0,4)	0035A	1125 1126	LH BB	R5,12(R0) R5(0,4),NROS5C	GET BYTE COUNT MAXIMUM COUNT EXCEEDED		11250 11260	
00034A		1 64	0035A	1127	IN	R1, X*64*	PUT INBOUND DATA IN REG 1	1	11270	
00034E		1 5		1128	STH	R1,0(R5)	STORE TWO BYTES	ī	11280	
000350		5(1)		1129	ARI	R5(1),X*02*	INCREMENT STORAGE ADDRESS BY 2	· ī		
000352		5 0		1130	STH	R5,12(RC)	STORE BYTE COUNT	1	11300	
000354		3(0)		1131		R3(0),X'40'	SET UP INBOUND DATA TRANSFER		11310	
000356		3(1)	22121	1132	LRI	R3(1),X'02'	COUNT=2		11320	
000358	A987		00104	1133	В	NROS18		1	11330	
				1135 **	*****	********	************	***** 1	11350	
				1136 *					11360	
				1137 *			TERMINATE THE INBOUND DATA TRANS	_	11370	
				1138 <b>*</b> 1139 <b>*</b>			CEIVED. THAT IS, IF THE EXPECTED	_	11386	
				1139 *			TUAL COUNT OR THE MAXIMUM ALLOWED L STATUS OF CE,DE,UC,UE IS SET UP	_	11390 11400	
				1141 *	COUNT 13	ENGLEDEDS A FINAL	L SIRIOS OF CLIDEFOCIOE IS SET UP	-	11410	
					******	*******	************	*****	11420	
00035A 00035A	1100	1 1		1144 NR 1145	ROS50 EQU XR	* R1,R1	CLEAR REG 1		11440	
Q0035C		7(1)		1145	LRI	R7(1),X*0F*	SET UP CE, DE UC, UE STATUS		11450	
00035E		* * * * *	00224		В	NROS23	BRANCH TO PRESENT STATUS	1	11460 11470	
			•		<b>.</b>	<del></del>	TE TE TE TE TE TE TE TE TE TE TE TE TE T		11410	

								EC		316673
NROS	3705 TYPE	4 CHANNEL.	N CHANN	EL ROS	CODE			DATE		JANUARY, 1977
	001.000	RINIM R2N2	ADDR	STMT	SOURCE	: STAT	EMENT	P/N		1749527
LOC	OBJ CODE	KINIM KZNZ	AUUK	31171	JOOKUL	. 3141		LOGIC		CW527
00036	0			1151 1152 1153 1154 1155	* THE * IN1	FOLL	OWING INSTRUCTIONS F E DISCONNECT.	**************************************	* 1 * 1 * 1 * 1 ******** 1	11500 11510 11520 11530 11540 11550
00036	0 C882 2 A943	1(0,1)	00364 00222	115 <sub>0</sub> 1159		8 B B	R1(0,1),NROS52 NROS22	BRANCH IF INBOUND XFER SEQUE BRANCH TO PRESENT CE, DE, UC		11580 11590
00036	2 A743			1161 1162 1163 1164 1165	*	FCLLC BRANCI	**************************************	DED MODULE  DA COUNT COMPARE, RESET IPL LE	********* 1 * 1 * 1 * 1 EVEL 1 * 1 * 1 * 1	11610 11620 11630 11640 11650 11660 11670
00036 00036 00036 00036 00037 00037 00037 00037	4 8C04 6 8102 8 1101 A 9004 C 050D E 51C8 0 9819 2 80C0 4 7174 6 8012 8 6124 A 8204 C 8304 E 003C	1(0) 1(1) 1 1 1(0) 5 0 1 5 1(0) 1 77 1(0) 1 62 3(0) 3(1) 0 03	0035A	1170 1171 1172 1173 1174 1175 1176 1177 1178 1180 1181 1182 1183 1184	NROS52	EQU LRI LRI LH ARI LH XR BCL LRI OUT LRI OUT LRI IN	* R1(0),X'04' R1(1),X'02' R1,0(R1) R1(0),X'04' R5,12(R0) R1,R5 NROS50 R1(0),X'CO' R1,X'77' R1(0),X'12' R1,X'62' R3(0),X'04' R3(1),X'04' R0,X'03'	PUT BYTE COUNT IN REG 1 ADD X'400' TO BYTE COUNT GET ACTUAL BYTE COUNT COMPARE EXPECTED AND ACTUAL BRANCH TO PRESENT CE, DE, UC SET UP RESET OF IPL L1 & CCU RESET IPL L1 AND RESET NOT I SET UP CE STATUS TRANSFER CHANNEL END STATUS TRANSFER SET UP BRANCH TO MODULE THAT WAS LOADED BRANCH TO MODULE	BYTE CNT 1 C,UE 1 J CHECK 1 INITIALIZ 1 SEQUENCE 1	11700 11710 11720 11730 11740 11750 11760 11770 11780 11790 11800 11810 11820 11830 11840
				1187 1188	* * *	RE	SET INTERRUPTS ON DI	**************************************	* 1 * 1 * 1	11869 11870 11880 11890 11900
00038 00038 00038 00038 00038 00038	00 8000 60 8000 62 8130 64 8406 66 8500 68 677C 6A EF06 6C 6174 6E 6524 60 AA6D	1(0) 1(1) 5(0) 5(1) 7 67 7(1,4) 1 67 5 62	00392 00126 0016E	1193 1194 1195 1196 1197 1198 1199 1200 1201	NROSO5A  BRPT06	EQU LRI LRI LRI IN BB OUT OUT B	* R1(0),X'00' R1(1),X'30' R5(0),X'06' R5(1),X'00' R7,X'67' R7(1,4),BRPT06 R1,X'67' R5,X'62' NROSO3 NROSO6	SET UP OUTPUT 67 SET UP OUTPUT 67 SET UP OUTPUT 62 SET UP OUTPUT 62 CHECK FOR ENABLED ADAPTER SET UP BRANCH TO NROSO6 IF E RESET LEVEL 1 OR SYS RST INT RESET INIT SEL OR DATA STATE BRANCH TO SCAN NEXT CA CA ENABLED, BRANCH TO NROSO	I I I ENABLED I TERRUPTS I JS I	11920 11930 11940 11950 11960 11970 11980 11990 12000 12010

							EC	316673
NROS	3705 TYPE	4 CHANNEL , N CHANN	NEL RO	S CODE			DATE	JANUARY, 1977
							P/N	1749528
LOC	OBJ CODE	RINIM R2N2 ADDR	STMT	SOURCE STAT	EMENT		LOGIC	CW528
			1205	********	*******	**********		12050
			1206 1207 1208	*	CHANNEL CONTRO	DL BLOCKS	* 1 * 1 * 1	12060 12070 12080
			1209 1210	* THE FOLLO	BY THE ROS PROGRA	S SET UP CHANNEL CONTROL B AM. EACH OF THE ADAPTERS	HAS A CHANNEL * 1	12090 12100
			1211	* FLAGS FOR	EQUIPMENT CHECK	INS 3 HALFWORDS. THE FIRS (BIT 7), BUS OUT CHECK (B ND BYTE IS A SELECTION MAS	IT 6), COMMAND * 1	12110 12120 12130
			1213 1214 1215	* CHECK FCR * SELECTION	PROPER ADAPTER S PENABLE CONTROLS	SELECTION. BYTES 3 AND 4. BYTES 5 AND 6 ARE POINT	ARE THE * 1 ERS WHICH * 1	12140 12150
			1216	*		IAL CHANNEL CONTROL BLOCK.	* 1 * 1 ******* 1	12160 12170 12180
						CA 1 CONTROL BLOCK	1	12200
0003E8 0003E8	0000		1220 1221	ORG DC	ZERO+X*C3E8* X*OCOO*	CA I CUNIKUL BLUCK	i	12210
0003E8	0000		1222		ZERO+X'03EA'		1	12220
0003EA	0408		1223	DC	X * 0408 *		1	12230 12240
C003EC			1224		ZERO+X'03EC'		1	12250
0003EC	03EE		1225	DC	X*03EE*	CA 2 CONTROL BLOCK	1	12260
0003EE			1226 1227	ORG DC	ZERO+X'03EE' X'0002'	CA 2 CONTROL DECCR	ī	12270
0003EE	0002		1227	ORG	ZERO+X'03FC'		$\overline{1}$	12280
C003F0	0500		1229		X 105081		1	12290
C003F0			1230		ZERC+X'03F2'		1	12300
0003F2			1231	DC	X • 03F4 •		1	12310
C003F4			1232	ORG	ZERO+X * 03F4 *	CA 3 CONTROL BLOCK	1	12320
0003F4	CCO4		1233	DC	X • 0004 •		1	12330
0003F6			1234	ORG	ZERO+XºC3F6º		1	12340
0003F6	8040		1235	DC	X'0608'		1	12350
C003F8			1236		ZERO+X'03F8'		1	12360 12370
0003F8	03FA		1237	DC	X*03FA*	CA & CONTROL PLOCE		12380
COO3FA			1238		ZERO+X'03FA'	CA 4 CONTROL BLOCK	1	12390
0003FA	CC06		1239	DC	X*0006*		1	12400
0003FC			1240		ZERO+X'C3FC'		1	12410
0003FC	0708		1241		X'0708' ZERO+X'C3FE'		1	12420
COO3FE			1242				i	12430
0003FE	03E8		1243	DC	X*03E8*		•	

•	EC	316673
NROS 3705 TYPE 4 CHANNEL N CHANN	EL ROS CODE DATE	JANUARY, 1977
LOC OBJ CODE RINIM R2N2 ADDR	STMT SOURCE STATEMENT	1749529
Edd ddd ddde William Mene Addin	LOGIC	CW529
00007E 00007D 000070 0000C0 CCOCC1 C00002 000003 C00004 000005 000006		1 12460 1 12470 1 12480 1 12490 1 12500 1 12510 1 12520 1 12530 1 12540 1 12550 1 12560 1 12570 1 12580 1 12590 1 12600 1 12610 1 12620

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															EC			316673	
NROS						CR	OSS-RE	FERENC	E						DATE			JANUAR	Y, 1977
															P/N				_
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BRPT06		000392		1198															
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CHKIPL 02				0565															
CHKIPL03				0567															
CHKIPL04				0570															
CONTLOOP				0782															
DROSO2		0000E8		0443															
ESCAPE		0006FC		0415															
ESCCHK		0000D2		0397															
FIBRPT		000300		1062															
INTGP1		00007E		0440															
LIBRPT		000308		1034															
L101		0001E8		0760															
MACHK		00007D		0432															
MAXIE01		000030		0212	0214	0219	0224	0227	0244	0265	0269	0278	0296	0302	0310	0315	0322	0477	
MARICOI	00001		00200	0480															
MAXIE02	00002	0000BC	C0365	0356	0359														
MAXITO1		000002		0348															
MAXITO2		000034		0204															
MAXITO3		000056		0258	0473	0474													
MAXITO4		000058		0232															
MAXITO5		0000AC		0362															
MAXITO6		0000B2		0160	0344														
MAXITO7		0000BE		0152	-														
BOTIXAM		0000C2		0393															
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MAXIT10		000000		0388															
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		000380		0596															
NROSO5A NROSO6		00016E			1202														
NROSC7		000172																	
NROSO8		00017C		0686															
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NROS17		000102			0665 0906	0027	0929	0983	1020	1042	1133								
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NROS19		0001DC		0645	1040														
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NROS21		000208			0714	0721	1041 0966	1111	1124	1150									
NROS22		000222		0801	0952	0959		1147	1167	**73					•,				
NROS23		000224		0895	0902	1078	1002	1141											

00001 000230 00829

N0.05						co	ROSS-RE	CEDENC	_						EC			3166	73
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D I	00001	000001	01255	0154	0155	0174	0211	0213	0216	0217	0218	0221	0222	0223	0226	0230	0231	0240	
R1	00001	555551	01277	0241	0242	0243	0258	0262	0272	0275	0277	0292	0293	0294	0299	0300	0305	0307	
				0312	0317	0336	0337	0347	0350	0355	0379	0387	0388	0391	0397	0400	0412	0413	
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R2		000002		0177		0040	0071	0201	0205	0200	0201	0207	0300	02/2	A255	0304	0201		
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				0781	0796 1182	0796	0797	0021	0011	0010	0017	0,00	0 701	0 7 0 2	FOTO	1011	1056	1131	
0.4	00001	000004	01258			1183	0479	0407	0533	0577	0534	0537	0547	0564	0574	0577	0600	0453	
Def AA	4 : 1 : 1 : 1 F F F	4 1 1 1 1 1 1 1 1 1 1	U1/7C	11107	U = 1 3	U7 / C	4717	U T 7 !			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· · · ·	V - T -	U - U - T	~ ~ . ~	4411		1107/	

0000000	000000000000000000000000000000000000000

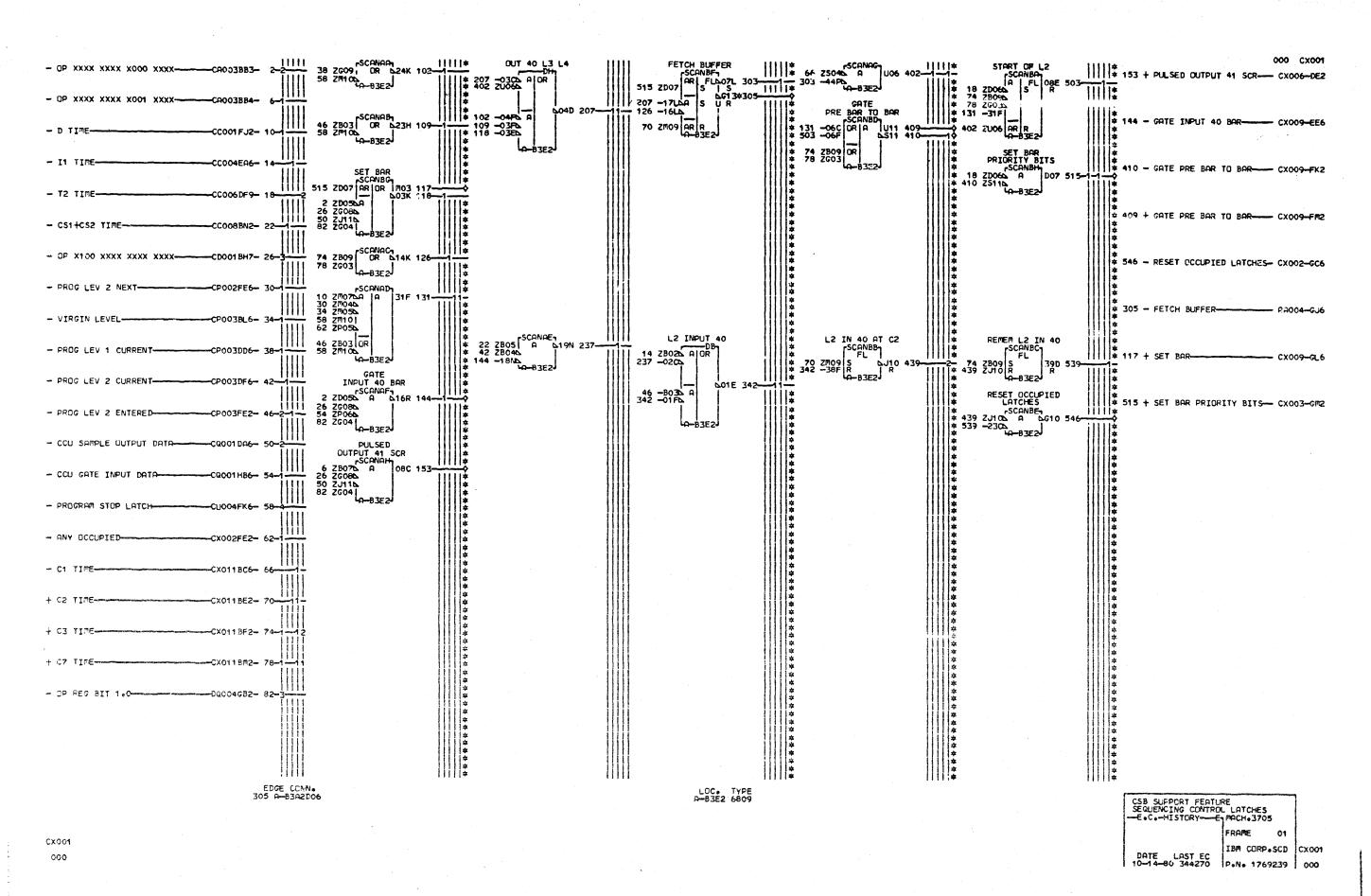
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R5	00001	000005	01259	0186 0538 0759	0261 0562 0760	0264 0603 0761	0277 0604 0761	0299 0625 0762	0301 0642 0763	0309 0652 0765	0312 0653 0766	0314 0654 07 <u>6</u> 7	0317 0690 0833	0321 0692 0834	0511 0693 0835	0513 0716 0920	0514 0718 0921	0537 0719 0923	
R6 R7		000006 000007		0930 1195 0189 0151 0321	0931 1196 0474 0157 0356	0932 1200 0476 0158 0357	0977 0478 0192 0471	0978 0478 0255 0471	0979 0479 0255 0472	0979 0542 0257 0475	0980 0259 0541	0268 0545	0272 0565	1128 0293 0573	0295 0574	0305 0595	0314 0605	0319 0685	
SMAXST SROS STOP TESTIO1 X3705ADA	00001 00001 00002	000000 000000 000070 000306 000000	C0004 01253 01039	0734 0257 0010 0148 1059	0818 0472 0416 0207	0894	0898	0999	0518	0519	1012	1015	1077	1081	1146	1197	1198		
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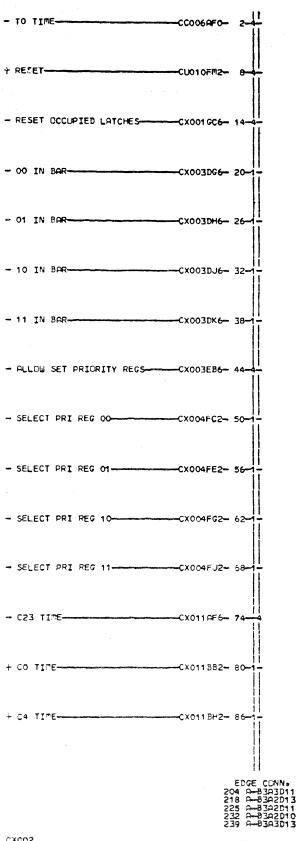
NO STATEMENTS FLAGGED IN THIS ASSEMBLY

\*STATISTICS\* SOURCE RECORDS (SYSIN) = 1262

\*OPTIONS IN EFFECT\* LIST, NODECK, LOAD, NORENT, XREF, LINECNT = 55

1307 PRINTED LINES





11 OCCUPIED	
2 ZP116   S   S	
44 -38KS 68 ZUO3S	
8 ZMO4 AR R	
14 ZM135A   R   38 ZM125   LA-B3D2	
GATE PRI AVAIL	
86 ZP12 S FL 399 118	
80 ZD06[R S	
10 OCCUPIED LATCH rSCANAC1	
2 ZP110   S   S   125	
44 -38KL 62 ZP1 0L	
8 ZM04   AR   R   14 ZM135A   R	
32 ZM116	
01 OCCUPIED LATCH	
SCANAB-	
2 ZP110 S S 44 -38Kb 56 ZP13b	·
8 ZMO4 AR R	
14 ZM135A R 26 ZM096 R	
OO OCCUPIED	
LATCH SCANAA A I FL 153	
2 ZP11b 5 S S S S S S S S S S S S S S S S S S	
8 ZMO4 AR R	
14 ZM13DA R 20 ZS03D	
TA-83021	
	-

PRI REG 11 RVAILABLE -SCANBG-104 46MA A 5U07\* 204-118 46PA U \*\*\*\*\*\* PRI REG 10 AVAILABLE rSCANBF1 125 48NA A ASO4\* 218-118 47NA U LA-B3D2J PRI REG O1 RYAILABLE -SCANBE1 139 33Nb A b#08\* 225-118 32Nb U La-83D2J PRI REG 00 AVAILABLE \*SCANBD1 153 31Pb A 6P06\* 232-118 31Pb U 40-83D2J PRI REG AV AILABLE PARITY -SCANBO1 118 32FARRIA DPO4\* 239-153 22 EV | 139 068 | 125 069 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 104 060 | 1 GATED 11 HIGHEST SCANBB P07 250-74 CPURS 7 CATED 10 HICHEST 10 HICHEST 74 ZPO96 A 125 -2211 109 -06 V6 10-B3D2 S02 257 GATED O1 HIGHEST FSCANATH 74 ZPO9A A S13 265— 139 -2111 125 -144A 104 -134A 104 -134A GATED GATED GRIED OO HIGHEST \*SCRMAG\* 74 ZPO9S R 153 -22 III 139 -01 Ch 125 -02 Ch 104 -03 Ch ANY DCCUPIED

SCRNAF1

153 09U OR 6810 283—
139 01C JJ1 284—
125 02C 104 03C **\*\*\*\*\*\*\*** نصوعوعن

000 CX00S 284 + ANY OCCUPIED--- CX003-FE6 265 + GATED 01 HIGHEST-257 + GATED 10 HIGHEST-4CX003 4CX004 250 + GATED 11 HIGHEST-4CX003 4CX004 239 - PRI REG AVAILABLE PARITY-GD6 232 - PRI REG OO AVAILABLE-- PAOO4-GF6 225 - PRI REG O1 AVAILABLE -- PAGO4-GH6 218 - PRI REG 10 AVAILABLE-- AAOO4-GK6 204 - PRI REG 11 AVAILABLE- PA004-GM6

LOC. TYPE A-B3D2 6808

CSB SUPPERT FEATURE PRIORITY REG OCCUPIED LATCHES -E.C.-HISTORY-E, PACH. 3705 FRAME 01 IBM CORP.SCD DATE LAST EC | 10-14-60 344270 | PeNe 1769240 | 000

CX002

000 CX003 CSB BID L2 2ND T-P- TO INBUS BIT 0-1 -SCANCD 22 ZB12L A DR 1605 404-304 -29CL U+ 10-83E2J SET PRE BAR 30 ZP055CD 103 ZP13 C 10-B3E2 + CSB WANTS A PRI REG-103 + SET PRE BAR CXOO9-BM2 18 ZP116 A 162 ZP096 B02 103 44C 203-203 29F S 210 19L R 28F 304-S J03 306-1111\* IA-B3E2J - CX002-DG6 -SCANBC 339 - 00 IN BAR-34 Z503ACD 103 ZP13|C - FLOAT TWO-AA004DJ6- 10 in-B3E2 332 - 01 IN BAR-- FLOAT THREE--00004DK1- 14 CX002-DH6 11 IN BAR SCANBA 50 ZPO7 CD 4 103 ZBO2 C 10-B3D2 217 -41EACD 414 217 - TO TIME--CC006AFO- 18-1-1-26 ZUOZ C B3D2 325 - 10 IN BAR-CX002-DJ6 10 IN BAR SCANBF - GATE INPUT 77--C0005Q 6- 22 -SCANAH 46 ZSO25CD 46 25025 103 ZB02 C 10-B3D2 224 -43CACD 26 ZUOZIC + SET BAR PRIORITY BITS--CX001 GM2- 26 318 - 11 IN BAR-- CX002-DK6 Lo\_B3D2 SCANAG-PH 42 ZS13ACD - ANY OCCUPIED--CX002FE2- 30 42 Z5135 103 ZB02 C 10-B3D2 231 -43FLCD 26 ZUOZ C 246 - ALLOW SET PRIORITY REGS CX002-EB6 لـ8302هــما + ANY OCCUPIED--CX002FE6- 34 PRE BAR SCRNAFT PH 38 ZU13ACD 103 ZB02 C SAN STANSON ST 306 + CSB SUPPORT BID PROG LEV 2---EL6 + GATED OO HIGHEST-CX002FG2- 38 P203 338 + GATED O1 HIGHEST--CX002FJ2- 42 URNT REG SCRNAB PH 2 ZSO8CD 2 ZSO9CD 14 ZUO9 C PRIORITY REGS
-SCANCE
18 ZP110 A 36Q 346246 -37R0
LQ-B3D2 ALLOW SET PRIDRITY REGS 58 ZU110A | DR 046K 246 346 + SET PRIDRITY REGS----- CXOC8-FC2 -CX002FL2- 46 + GATED 10 HIGHEST-54 -49HA 152 -48HA + GATED 11 HIGHEST--CX002FN2- 50--SCANAC 6 ZUOGACD 480 - IDENTIFY CSB-- AAOO4-FD4 70 -49LAA 159 -49JA 6 ZUUGALL 74 ZUUG [C A-B3D2] 49F 152-- C70 TIME-66 -48LAA 166 -48KA SCANAD-474 BOARD GROUND-- AROO4-FE4 -CX011AC6- 58 10 ZSO7 CD 47C 159 LO-B3D2 - C23 TIME--CX011AF6- 62 404 + 2ND T.P. TO INBUS BIT 0.1 -----FM2 PH 14 ZS055CD 74 ZU09 C 0-83D2 - C56 TIME-SERV# + C5 TIMEin-8303 -IDENTIFY CSB SCANCC EDGE CONN. LCC. TYPE 474 A-B3A3B04 01A-B3A3B05 01A-B3A3B06 480 A-B3A3B02 CSB SUPPORT FEATURE
WENT REG AND BAR PRIORITY BITS A-B3D2 6808 A-B3E2 6809 -E.C.-HISTORY-E, MACH. 3705 FRAME IBM CORP.SCD CX003 CX003

000

DATE LAST EC 06-02-81 344828 P.N. 1769241

SELECT
PRI REG 11

57 ZPO7 AR OR SU03 304—
72 —4305A
202 —413|
230 —460| PRI REQ REG 67 20116A | OR | 410 202-SCANACI SCANACI PH 2 ZMO7ACD B7 ZU09 C B7 ZU09 C + CSB TO COMMON BIT A--0004DK3- 2-1-380 - SELECT PRI REG CO-CX002-FC2 104 -41HA 62 -44H5A 82 -44LA9 117 -44.A - FLOAT FOUR-AA004DK5-381 + SELECT PRI REG 00-CX008-FC6 7 ZPO5CD 7 ZP03300 87 ZU09 C | 10-8302 77 -43LA 124 -43Kb | LA-B3D2 - FLOAT FIVE--0004DK7- 12-1 370 - SELECT PRI REG 01- CX002-FE2 SCANAC PH - FLOAT SIX--0004DL2- 17-371 + SELECT PRI REG 01-CX008-FE6 + CSB TO COMMON BIT B--0004DL4- 22-17 ZJI ZSCD 87 ZU09 C B3D2 360 - SELECT PRI REG 10-CX002-FG2 - FLOAT SEVEN -AA004DL6- 27 PRI REG REG SCANRE SCANRE PH 22 ZU12ACD 87 ZU09 C LA-B3D2 67 ZU1164 | DR | 46U 230-132 -46TS 62 -49TSA 138 -48TS - FLOAT EIGHT 0004DF1- 32 361 + SELECT PRI REG 10-CX008-FG6 82 -4940A 145 -4940 77 -4840A 152 -4840 SCANAF-PH 27 ZS11\CD 87 ZU09 C 0-83D2 - FLOAT NINE--AA004DF13-- 37-304 - SELECT PRI REG 11-CX002-FJ2 + GATED OO HIGHEST--CX002FG2- 42 305 + SELECT PRI REG 11-CX008-FJ6 32 ZS1 2CD 87 ZU09 C 0-83D2 + GATED O1 HIGHEST--CX002FJ2- 47-+ GATED 10 HIGHEST-CX002FL2- 52 + GATED 11 HIGHEST--CX002FN2- 57 PRI REG 10 SCANBE 360-1804 361-72 -430A - C70 TIME--CX011AB6--202 -41JI 230 -43RA SELECT PRI REG 01 15 CANBD1 1 SCANBD1  CO1 TIME--CX011AC6- 67 72 -4305A 202 -4405 230 -46U + C23 TIME--CX011AF2- 72 SELECT PRI REG DO - C56 TIME--CX011AL6- 77 42 ZU13 AR OR M10 380-72 -4300A - C67 TIME--CX011AM6- 82-\*\*\*\*\*\* 202 -42NA 230 -43NA + C5 TIME -CX011BJ2- 87 LOC. TYPE 9-B3D2 6808 CSB SUPPORT FEATURE PRI REQ REG AND REG SELECTION -E.C.-HISTORY-FRAME

CX004

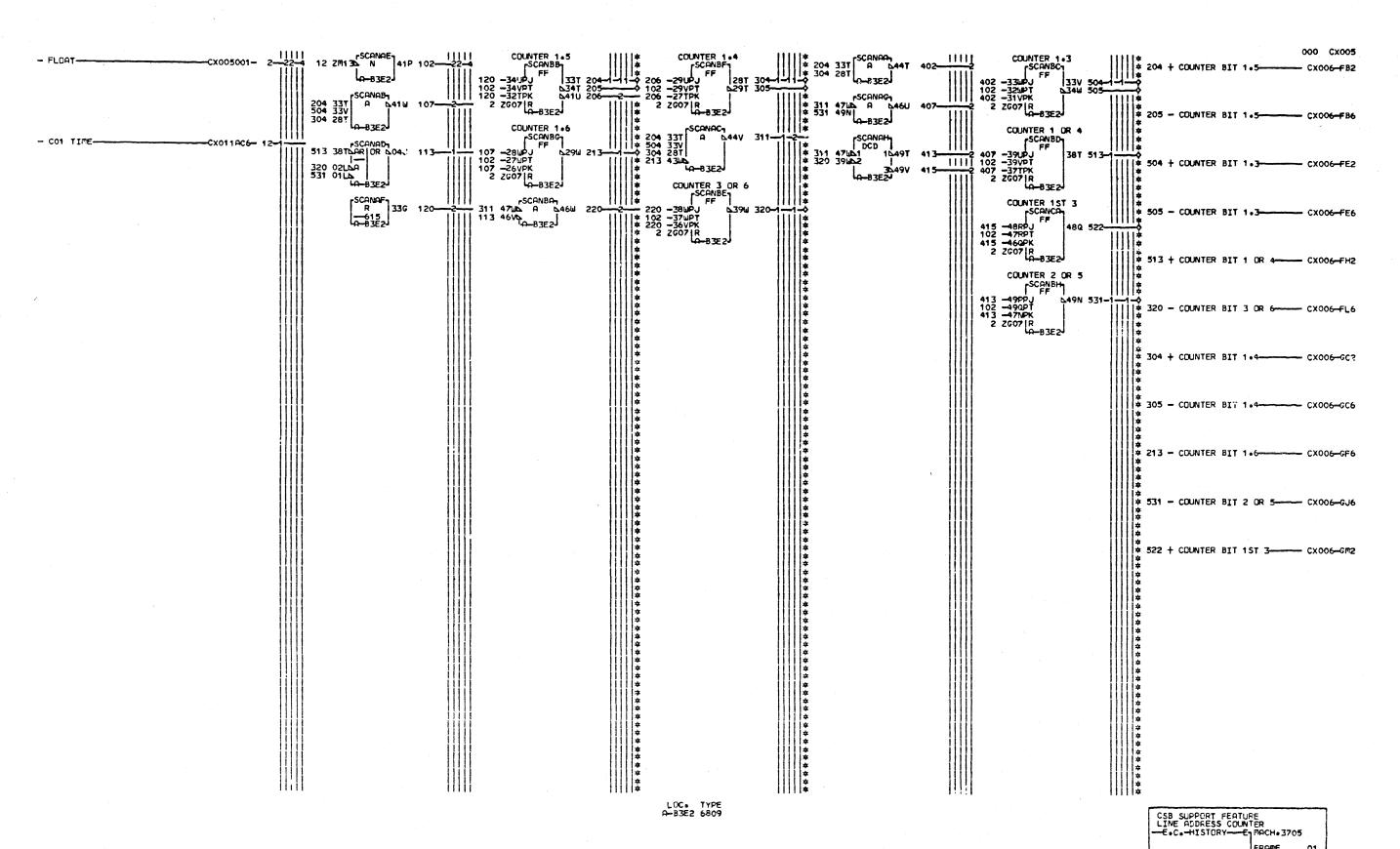
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000 CX004

IBM CORP.SCD CX004

P.N. 1769242

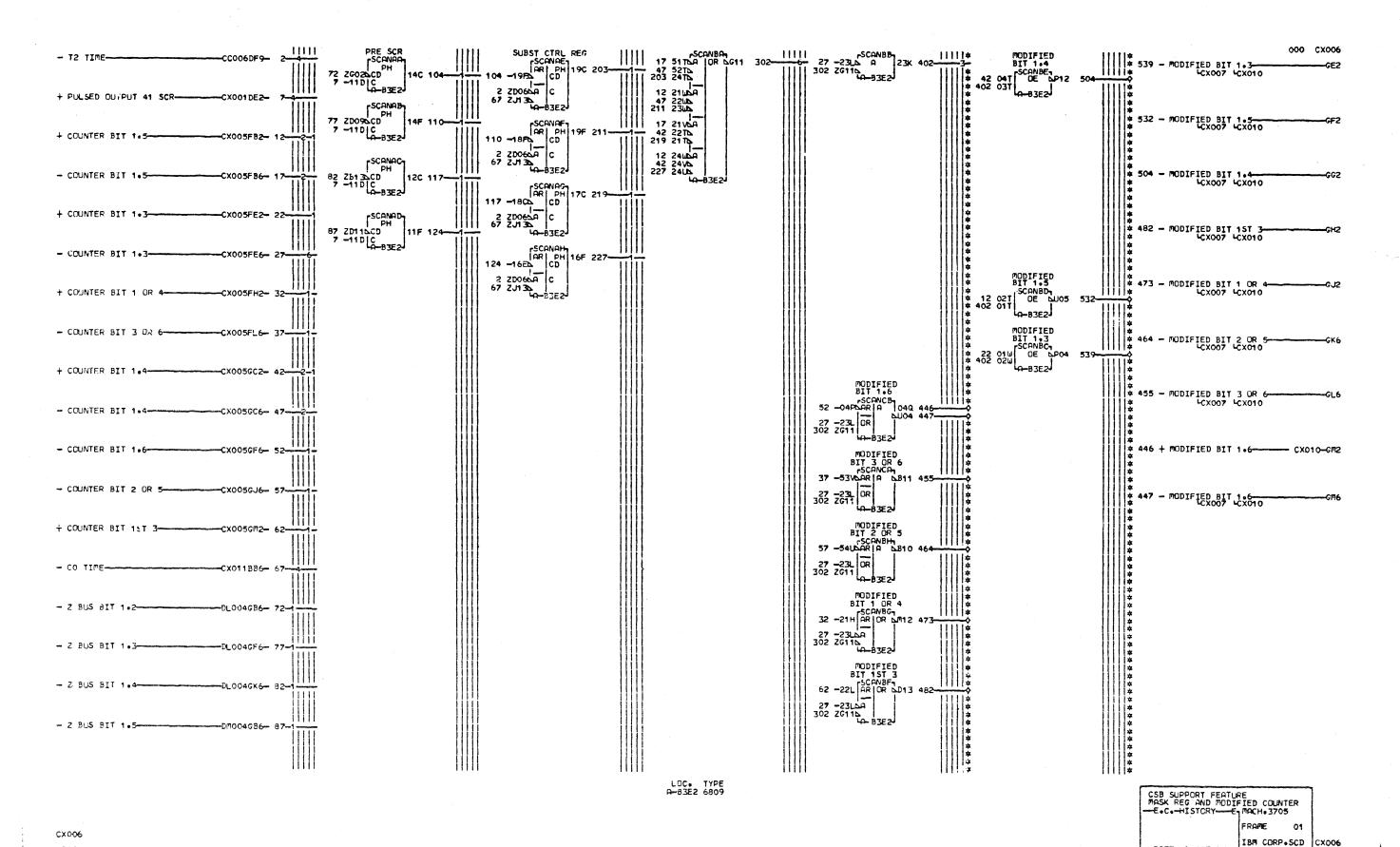
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CX005

DATE LAST EC 10-14-80 344270 | P.N. 1769243 | 000

IBM CORP.SCD CX005



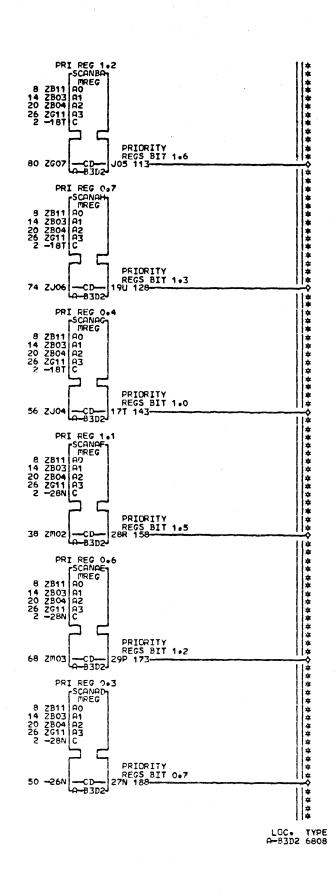
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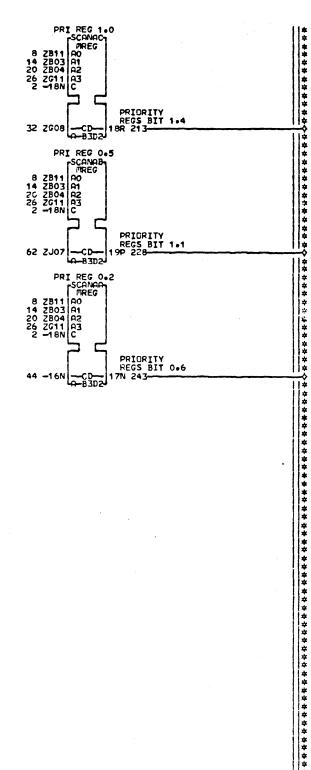
DATE LAST EC 10-14-80 344270 P.N. 1769244

287 + BIT 1.4 TO PRIORITY REGS— 56 ZU115A OR B12 202-000 CX007 BIT 1.6 TO PRIORITY REGS SCANDER 166 -49RLA DR GO7 302 -49QL # 373 1105 A OR -AA004DK3- 2-+ CSB TO CCAMON BIT A-202 ZB125A 231 =02F5 160 =01B5 # 485 12Fb A # 372 11Fb 5 ZP055CD 71 Z5461 279 + BIT 1.5 TO PRIORITY REGS-11111 \* 372 110 CR J04 516 271 + BIT 0.6 TO PRIDRITY REGS-264 + BIT 0.7 TO PRIORITY REGS---11 ZJ125CD 71 ZS10 CD 71 ZS10 C 516 + BIT 1.0 TO PRIDRITY REGS-11111 132 -5111 68 -5410A 145 -5410A 17 ZS116CD 71 ZS10[C 71 ZS10]C # 506 + BIT 1.1 TO PRIORITY REGS-71 ZS10 CD \* 523 + BIT 1.3 TO PRIDRITY REGS-+ CXOOB COUNTER REG 404 + BIT 1.6 TO PRICRITY REGS-4CX008 26 ZG105CD 6 74 ZU09[C B3D2 PH 59 14P 47 ZGOZSCD 5 74 ZUO9 C 10\_B3D2 BIT 0.6 TO PRIORITY REGS 59 12N OR 11P 271 + C2 TIME-PRIDRITY REGS 372 0906 EV 386 09P6 BIT 1.5 TO PRIORITY REGS SCANCA PH COUNTER REG 09C 181 BIT 1.4 TO PRIORITY REGS IA-B3D2J 230 ZD105 A \* SCANCE + 230 ZD100 A 5140 386-32 ZG040CD 74 ZU09 C 0-B3D2 CSB SUPPORT FEATURE
MODULUS REG AND COUNTER REG
E.C.-HISTORY-E MACH. 3705
344270 A-B3D2 6808 CX007 IBM CORP.SCD CX007

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+ SET PRIDRITY REGS -CX003FC2- 2-63 + SELECT PRI REG 00--CX004FC6-+ SELECT PRI REG 01--CX004FE6- 14-+ SELECT PRI REG 10--CX004FG6- 20-é + SELECT PRI REG 11--CX004FJ6- 26-6 + BIT 1.4 TO PRIORITY REGS-CX007EK2- 32-+ BIT 1.5 TO PRIORITY REGS-CX007EL2- 38-+ BIT 0.6 TO PRIDRITY REGS-CX007GA6- 44 + BIT 0.7 TO PRIORITY REGS-CX007GB6- 50-+ BIT 1.0 TO PRIORITY REGS-CX007GC6- 56-+ BIT 1.1 TO PRIDRITY REGS-CX007GE6- 62-+ BIT 1.2 TO PRIDRITY REGS-CX007GF2- 68-+ BIT 1.3 TO PRICRITY REGS CX007GUZ- 74-1-+ BIT 1.6 TO PRIORITY REGS CX007GM4- 80-1





000 CX008

243 + PRIORITY REGS BIT 0.6— CX009—BD6

228 + PRIORITY REGS BIT 1.1— CX009—BG6

213 + PRIORITY REGS BIT 1.4— CX009—BK6

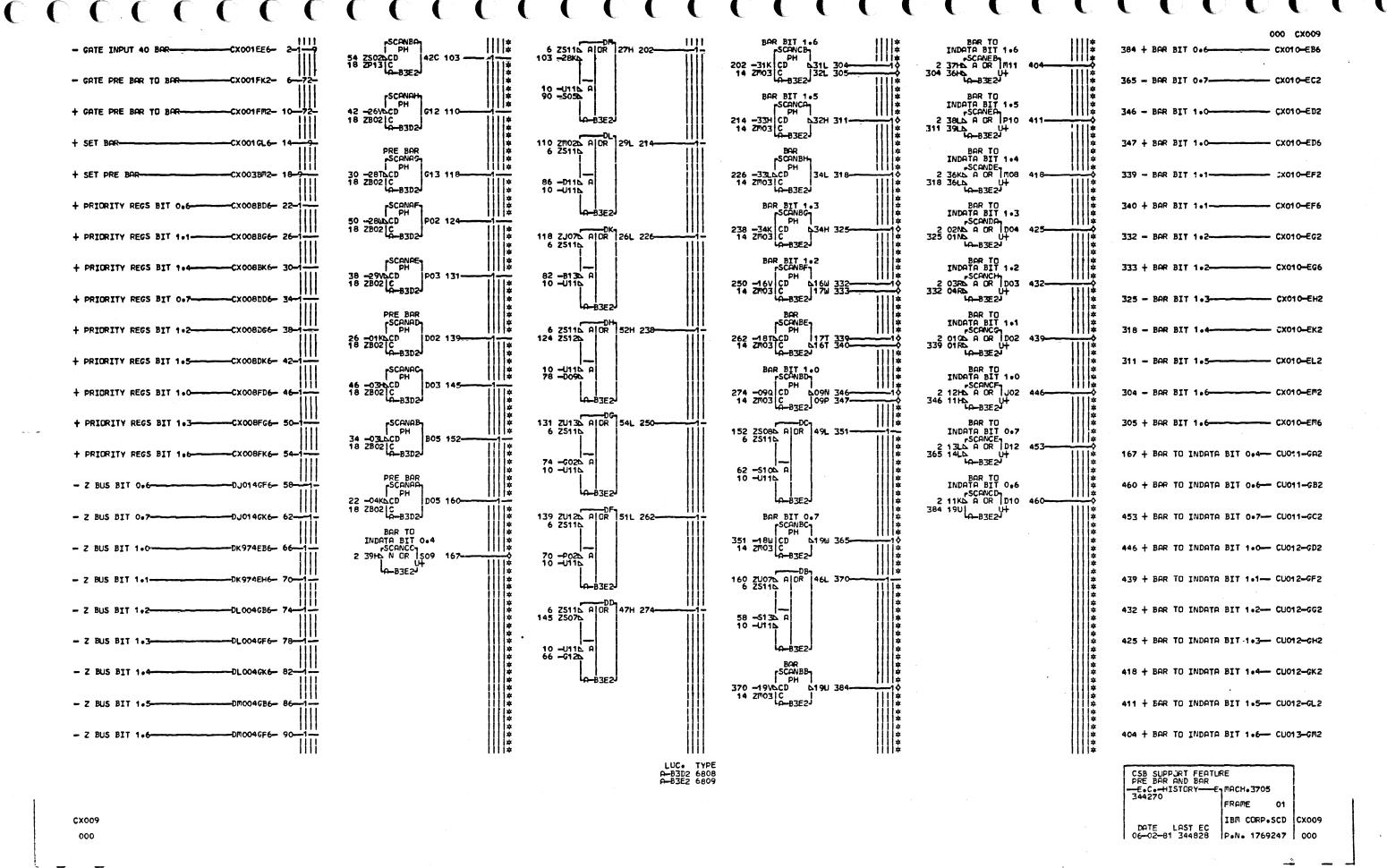
188 + PRIORITY REGS BIT 0.7— CX009—DD6

173 + PRIORITY REGS BIT 1.2— CX009—DG6

158 + PRIORITY REGS BIT 1.2— CX009—DK6

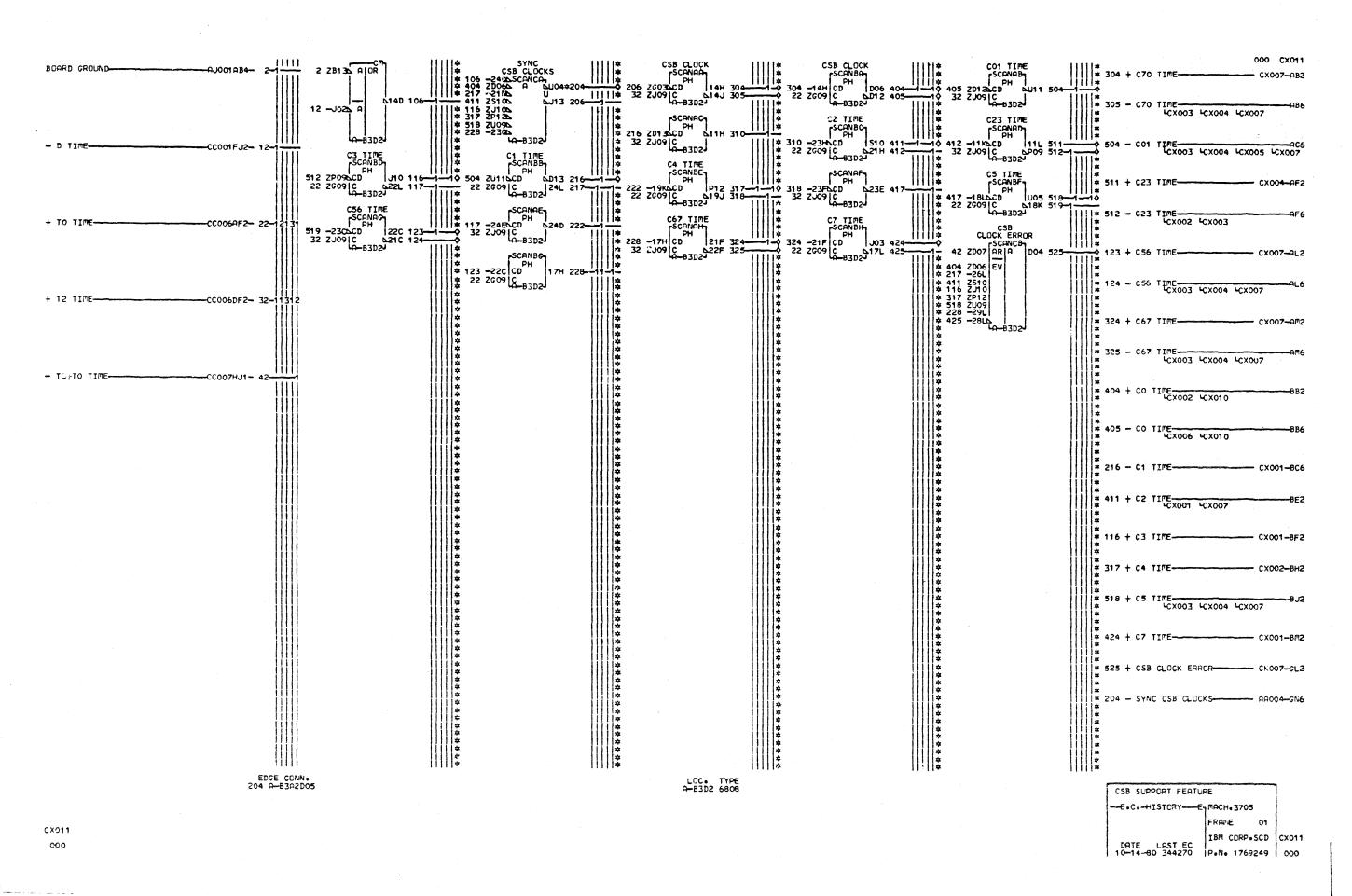
143 + PRIORITY REGS BIT 1.0— CX009—FD6

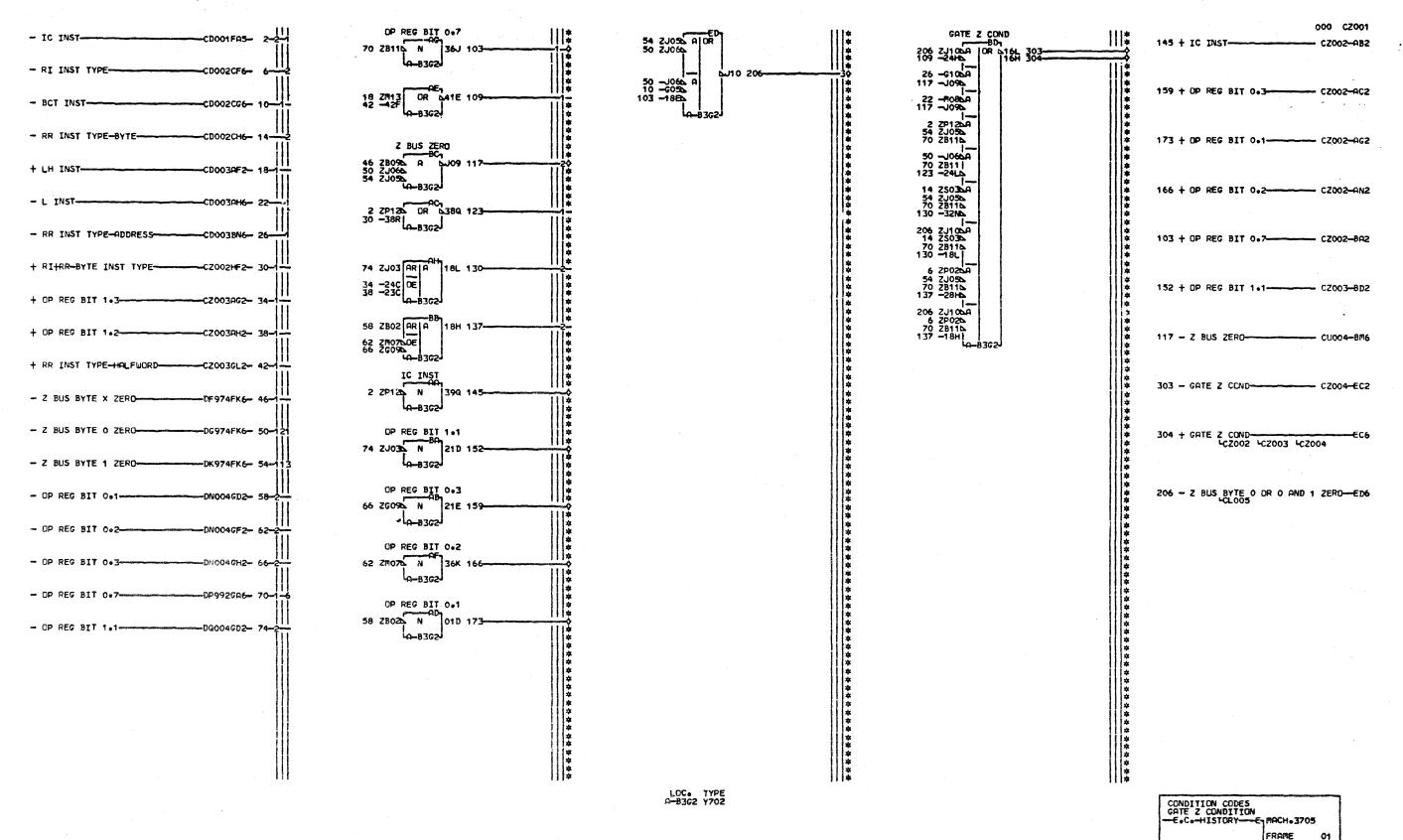
113 + PRIORITY REGS BIT 1.6- CX009-FK6



106 21RASCANAG1 118 21PA EV AU10 202— 53 22NA 56 23NA 59 24RA 65 23R | 126 22RA 133 210A LA-B3E2 000 CX010 |||# LINEADBUS BIT P - MODIFIED BIT 1.3 ---CX006GE2-38 06TS A OR 160 + LINEADBUS BIT 6-- AAOO4-BH4 68 ZPO3SA | UR | U09#304-- MODIFIED BIT 1.5--CX006GF2-|||\* 44 07 LL A 47 06 LL - MODIFIED BIT 1.4--CX006GG2-259 + LINEADBUS BIT 2-- 00004-DR4 LO-BIEZ - MODIFIED BIT 1ST 3---CX006GH2-- 11--11 LINEADBUS 38 08TS A OR 249 + LINEADBUS BIT 4 AROUA-DE4 - MODIFIED BIT 2 OR 5--CX006GK6- 17-11. ∆09U 118-35 09 LA A 50 08 LA 41 08 VA - MODIFIED BIT 3 OR 6--CX006GL6- 20-269 + LINEADBUS BIT 3 AROU4-ED4 + MODIFIED BIT 1.6--CX006GM2-- 23 SCANARION STATE 126-- MODIFIED BIT 1-6--CX006GM6- 26 239 + LINEADBUS BIT 5 AROUA-EF4 44 14409 + BAR BIT 0.6 50 1340 B3E2 75CANABA 44 14 LA A OR A 11U 133--50 13 LA 35 09 LA 41 09 LA 47 08 KA 40 - B3E2 - BAR BIT 0.7--CX009EC2- 32 279 + LINEADBUS BIT 0- APO04-FA6 - BAR BIT 1.0--CX009ED2-LINEADBUS + BAR BIT 1.0--CX009ED6--174 + LINEADBUS BIT 7----- AAOO4-FG4 2 ZPO4ASCANAD 5 ZUO5A EV A11N 142-8 ZP12A 11 ZD13A - BAR SIT 1.1--CX009EF2- 41 + BAR BIT 1.1--CX009EF6--14 ZM12A 17 ZB10A 20 ZB11A 23 -13R 314 + LINEADBUS BIT 8 -- AROU4-FK4 LINEADBUS -CX009EG2- 47-BIT 4 17 ZB1 CSA | OR | 68 ZP0 35. | 118 -31 NSA | 71 ZJ1 35. | 10-83 ZZ J04#249 + BAR BIT 1.2--CX009EG6- 50 304 + LINEADBUS BIT P AROUA-FN4 -CX009EH2- 53-11 - BAR BIT 1.4--CX009EK2- 56-11 LINEADBUS 184 + LINEADBUS BIT 1----- 99004-GB6 BIT 2 LINEADBUS BIT 6 11 ZD13AA | OR | 68 ZP03A | OR | 171 ZJ13AA | 126 -26MA | 126 -83E2 -CX009EL2- 59 J09#259 53 -34NAA | OR P07#160-71 ZJ135 - BAR BIT 1.6--CX009EM2- 62 286 + LINEADBUS BIT 9----- AAOO4-GL4 2 ZP045A + BOR BIT 1.5--CX009EM6- 65 TA-93E2 LINEADBUS SCANE . + CO TIME--CX011BB2- 68 LINEADBUS BIT 7 SCANBF1 8 ZP12DA | UR 68 ZP03DA | - CO TIME--CX011BB6- 71-06 -36 Par. 71 ZJ1 35 | 10-83E2 LINEADBUS 56 -36NAA 71 ZU13A LA-83E2 BIT O AR J06# 279 123E3-01 LINEADBUS 32 14P0 U EDGE CONN 304 A—B3A2D03
160 A—B3A2B10 314 A—B3A2B13
174 A—B3A2B12
184 A—B3A2B04
239 A—B3A2B08
249 A—B3A2B08
259 A—B3A2B05
269 A—B3A2B06
279 A—B3A2B06
279 A—B3A2B06
279 A—B3A2B02
286 A—B3A2D02 LOC. TYPE A-B3E2 6809 CSB SUPPORT FEATURE LINE ADDRESS BUS ASSEMBLER -E- FACH- 3705 FRAME CX010 IBM CORP.SCD CX010 DATE LAST EC 10-14-80 344270 000 P.N. 1769248 000

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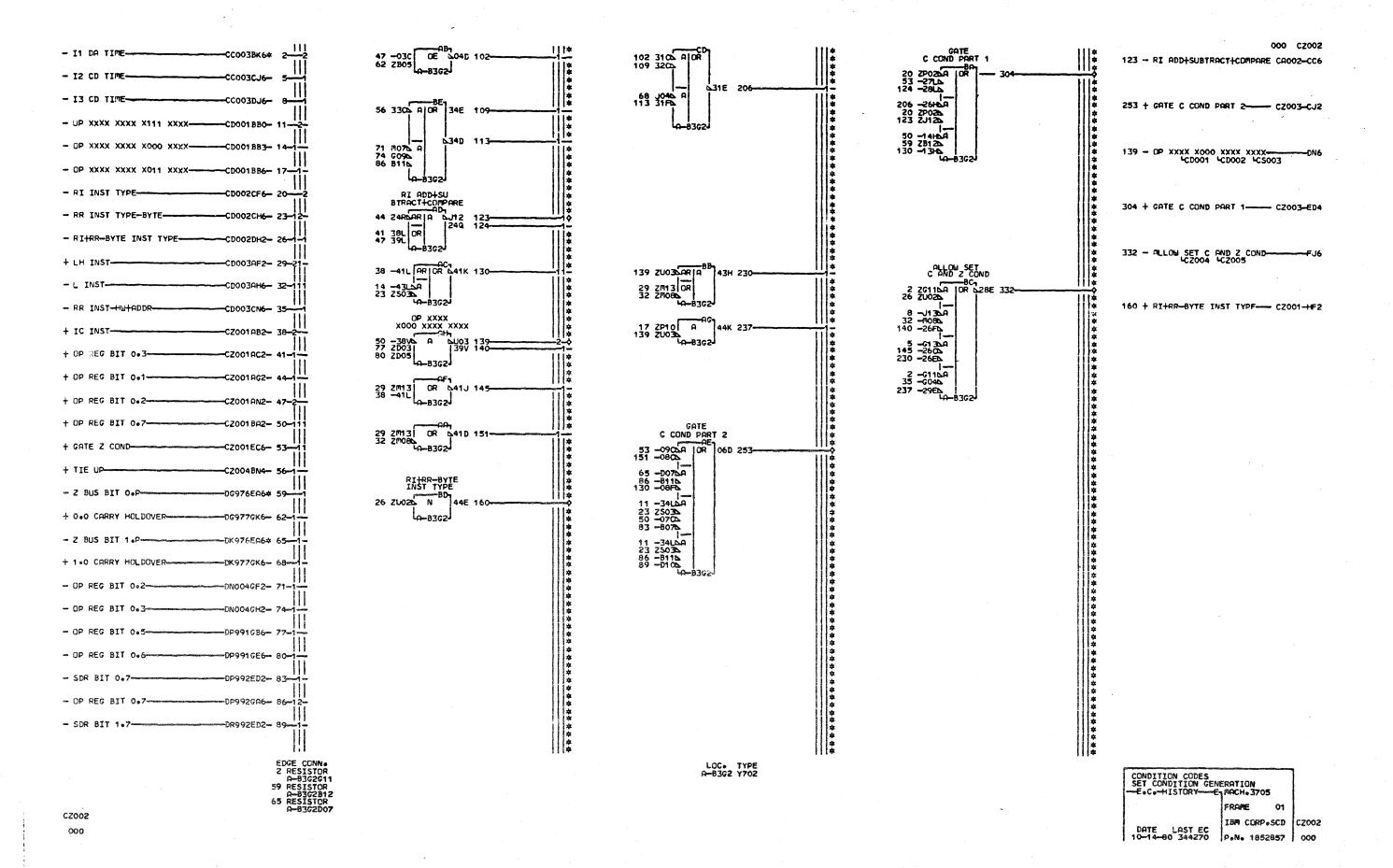




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DATE LAST EC 10-14-80 344270 **CZ001** 

CZ001



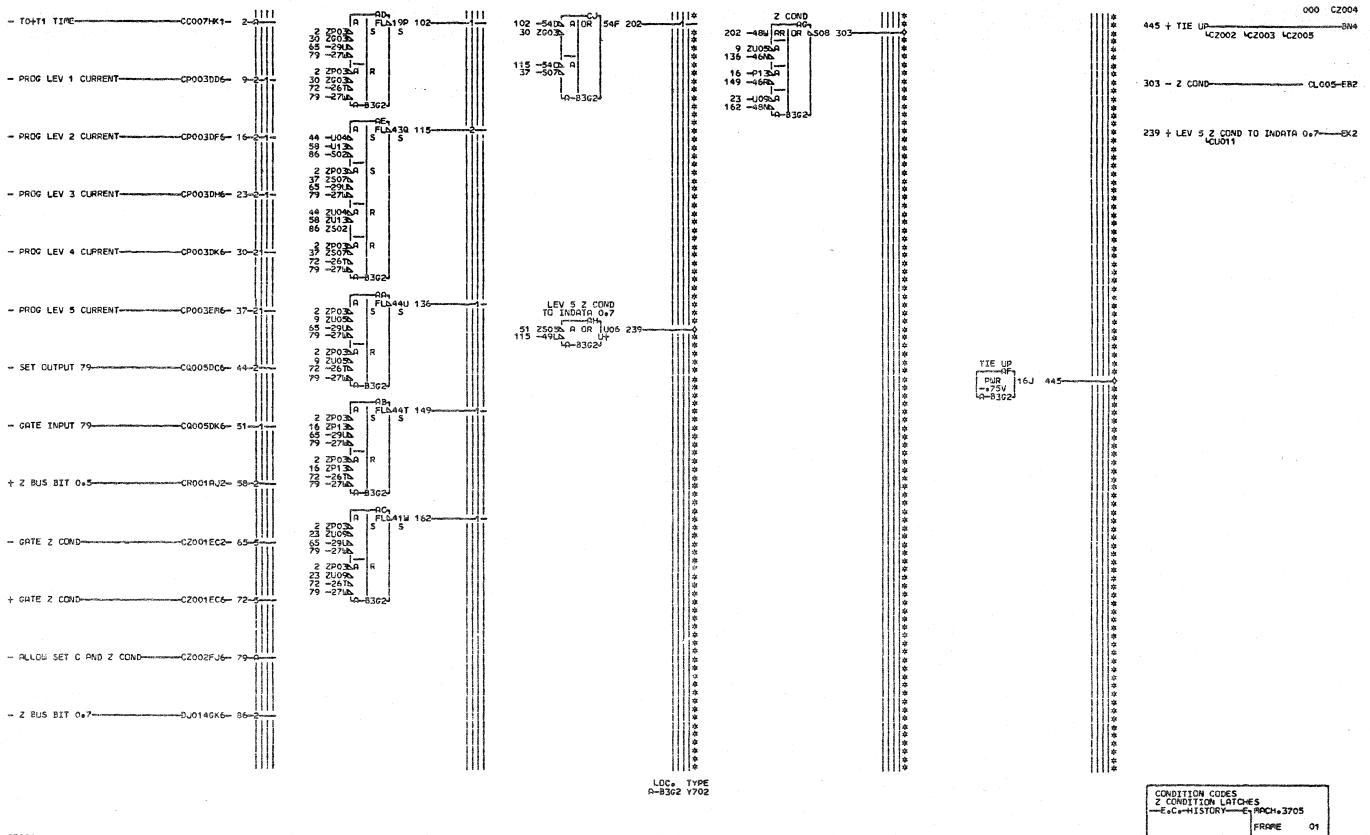
000 02003 62 ZUOZÁRIA |||\* 138 + OP REG BIT 1.3-- CZOO1-GG2 66 ZB13 OR 70 ZD12 18 ZJOZNA 109 -24NA 125 ZGOSN 145 + OP REG BIT 1.2-- CZ001 -AH2 50 ZB05 DE 201E 109 66 ZB132 109 1605 A DR 2 -11KbA 22 ZG046 74 ZD106 - RR INST TYPE-BYTE--CD002CH6- 10 \$16E 213-54 JO46 A 117 1679 14 ZG105A 125 ZG085 132 -21P5 - RR INST TYPE-ADDRESS--CD0038N6- 1 125 - RR ADD+SUBTRACT+COMPARE CACC2-886 109J 116-10 ZSO3AA 34 -32RA 203 -33RA - RR INST TYPE-HALFWORD--CD003CM6-303 - GATE C COND-- CZ005-FG2 - RR INST-HAHADDR-213 -31 NSA 10 ZSO3S 125 ZGO8S -CD003CN6- 2 RR ADDISU BTRACTICOMPARE 30 -14 LAR A LGOB 125-66 2813LOR 14K 126-70 2012L + X.6 CARRY HOLDOVER GATED \_\_\_\_CGOOTCK6- 26 304 + GATE C COND-- CZ005-FG6 22 ZGO46 34 -14R6 126 -12R6 + OP REG BIT 1-1--CZ001BD2- 30-26 ZD04 DE 204E 132-66 ZB132 153 + RR INST TYPE-HALFWORD- CZ001-GL2 + GATE Z COND--CZ001EC6- 34 OP REG BIT 1.3 70 20126 N 11E 138 + GATE C COND PART 2--czoozcuz- 3 10-B3C2 + GATE C COND PART 1--CZ002ED4- 42 OP REG BIT 1.2 ZB135 N 13C 145-66 ZB135 N \*\*\*\*\*\*\*\*\*\* CZ004BN4-La-8362 + 0.0 CARRY HOLDOVER--DG977GK6- 50-RR INST TYPE-HALFWORD
ZJOZE N 14E 153-18 ZJ025 N + 1.0 CARRY HOLDOVER--DK977GK6- 54 La-83624 - OP REG BIT 0.7--DP992GA6- 58 - OP REG BIT 1.1--DQ004GD2- 62-1 - OP REG BIT 1.2--DQ004GF2-- OP REG BIT 1.3--DQ004GH2- 70-4 - SDR BIT 1.7--DR992ED2- 7 LOC. TYPE A-B3G2 Y702 CONDITION CODES
GATE C CONDITION
E.C.-HISTORY MACH - 3705 FRAME CZ003

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IBM CORP.SCD

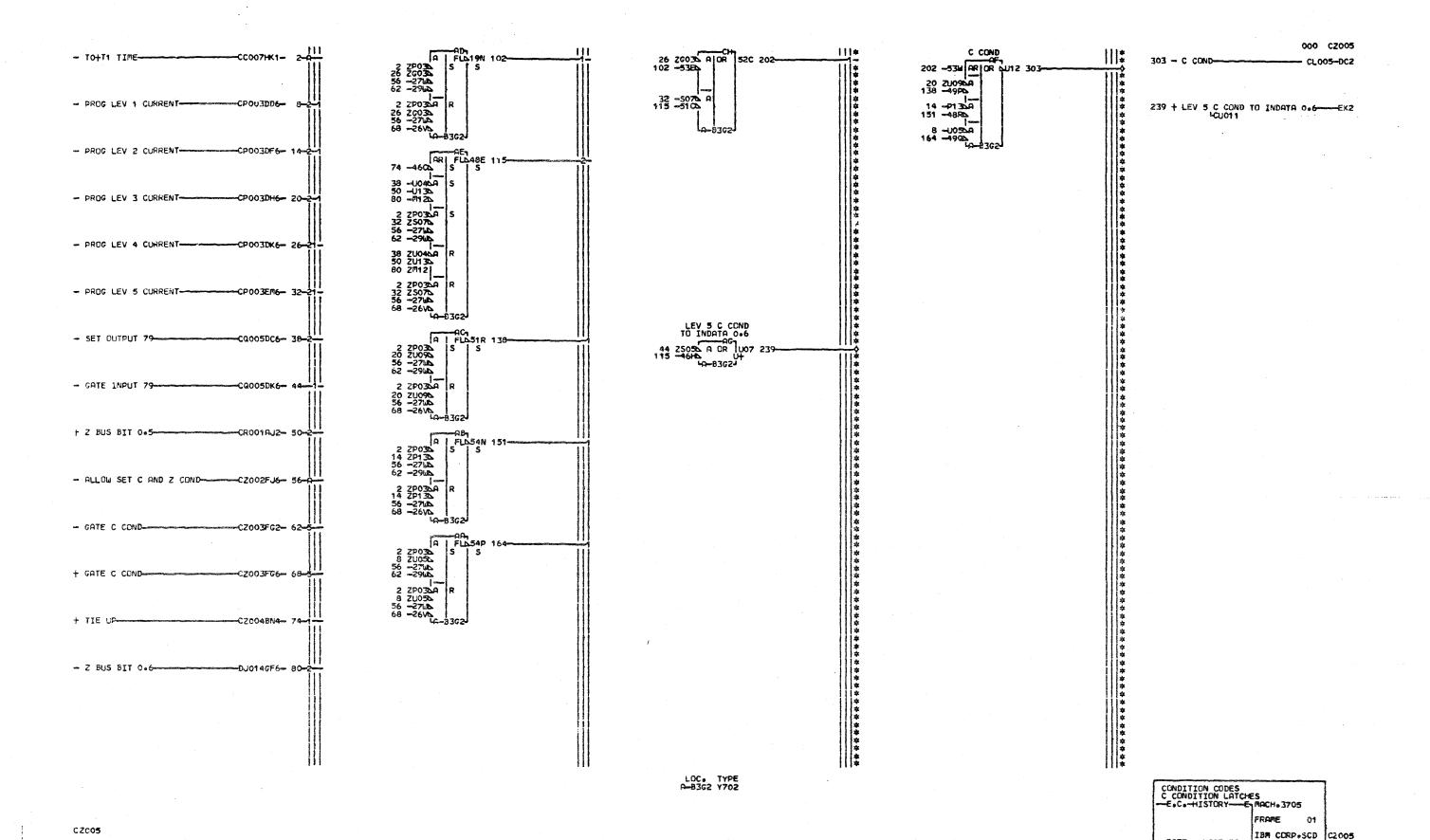
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